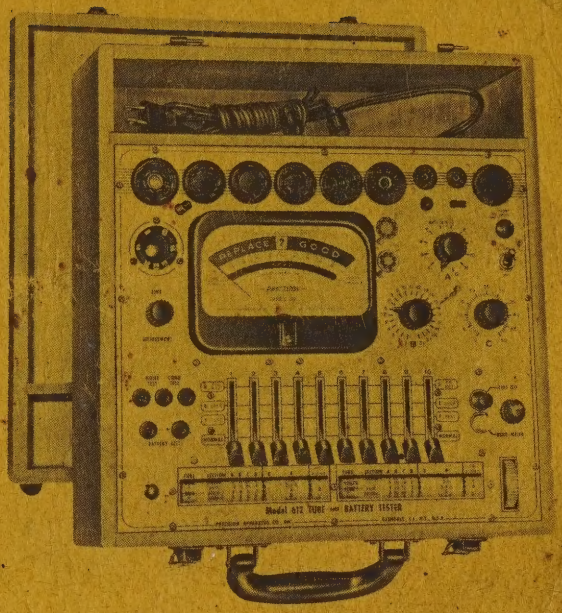
FORM — ERC (GB) PRICE 75¢

SUPPLEMENTARY TUBE DATA



FOR USE WITH PRECISION TUBE TESTERS

PRECISION
TEST INSTRUMENTS BY
PACOTRONICS

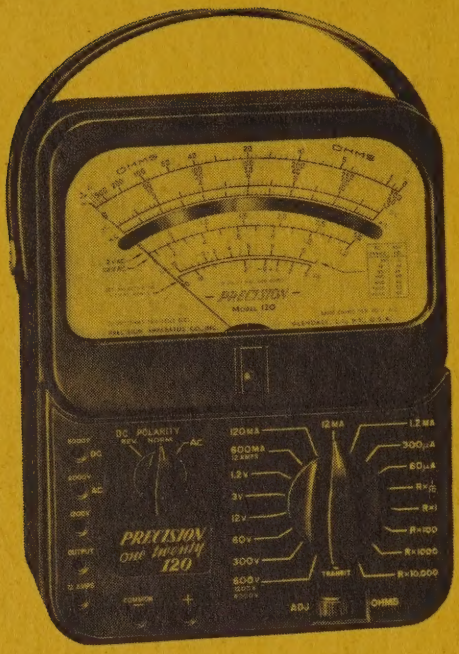
MODELS
612, 614, 620, 654

This Supplementary Chart provides settings for tubes which fall into one or more of the following classifications:

1. Infrequently encountered types;
2. Obsolete types;
3. Tubes manufactured for special or limited applications;
4. Foreign tubes.

PRECISION

PRECISION Apparatus Co., Inc.
(A SUBSIDIARY OF PACOTRONICS, INC.)
70-31 84th Street, Glendale 27, Long Island, N. Y.



MORE

OF EVERYTHING YOU WANT IN A V-O-M

- New Mirrored Scale Plate
- Wider Frequency Response AC Ranges
- New DC Polarity Reversing Switch

MODEL 120

LABORATORY-TYPE VOLT-OHM-MILLIAMMETER WITH MIRRORED-SCALE

This instrument is the most comprehensive Volt-Ohm-Milliammeter ever offered within its price range. It features 61 ranges and functions specifically designed for use in industry, laboratory, maintenance shop and technical school.

MODEL 120, complete with batteries, test leads and technical manual.
NET PRICE $44.95

MODEL 120 FEATURES

20,000 OHMS-PER-VOLT DC

5,000 OHMS-PER-VOLT AC

61 RANGES start lower and go higher than other instruments of its size and type

EXTRA-LOW RESISTANCE RANGE
2 ohms at center scale (R x 1/10)

EXTRA-LOW VOLTAGE RANGES 0.3 V full scale DC, 1.2 V full scale AC

EXTENDED LOW-CURRENT RANGE 60 μA first DC range

EXTRA-LARGE 5½" WIDE VISION PACE METER
with polished mirrored-scale

SIMPLE RANGE SELECTOR with silver-plated contacts

DC POLARITY REVERSING SWITCH

WIDE FREQUENCY RESPONSE AC AND DB RANGES
flat from 15 cps to 100 Kc ±1 Db

"TRANSIT" POSITION ON RANGE SELECTOR
protects meter during transportation

ONLY 2 PLUG-JACKS SERVE ALL STANDARD RANGES

SOLID BRASS BANANA-TYPE JACKS AND PLUGS

CUSTOM-MOLDED PHENOLIC CASE AND PANEL

SPECIFICATIONS

9 DC VOLTAGE RANGES 20,000 ohms-per-volt (neg. and pos. reading) 0-0.3-1.2-3-12-60-300-600-1200-6000 V.

8 AC AND OUTPUT VOLTAGE RANGES 5000 ohms-per-volt (wide frequency response); built-in 600 V blocking capacitor; 0-1.2-3-12-60-300-600-1200-6000 volts

7 DC CURRENT RANGES (neg. and pos. reading) 0-60-300 μamps; 0-1.2-12-120-600 Ma; 0-12 amps

5 RESISTANCE RANGES (self-contained batteries) 0-200-2000-200,000 ohms; 0-2-20 megohms

8 WIDE-FREQUENCY DECIBEL RANGES
from −20 to +77 Db; 0 Db equals 1 Mw, 600 ohms

RUGGED 50 MICROAMP PACE METER ± 2% accuracy

1% MULTIPLIERS AND SHUNTS

DIMENSIONS 5⅜" x 7" x 3⅛"

SHIPPING WEIGHT 4 lbs

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
OA4		5	1	10	■		5	■
	(OA4—May show short on 2-7)							
OY4		5	18	5	■		5	■
	(OY4—Must show short on 7-8) (OY4—May show short on 3)							
OZ3	plate-1	5	18	6	■		2	■
"	plate-2	5	18	6	■		3	■
	(OZ3—Must show short on 1-8)							
OZ4	plate-1	5	18	6	■		3	■
"	plate-2	5	18	6	■		5	■
01A		2	6	34	1 ■		2-3	■ 4
1		1	7	8	1 ■		2	■ 4
1A3	†diode	3	2	38	1 ■	5-2	6	■ 7
	(1A3—Must show short on 2-5-6) (1A3—Plate Short Test—Throw 2-6 together)							
1A4		2	3	34	1 ■		2-3-9	■ 4
1A5		2	2	32	2 ■		3-4-5	■ 7
1A6	total	2	3	34	1 ■		2-3-4-5-9	■ 6
"	triode	2	3	39	1 ■		3-4	■
1A7	total	2	2	33	2 ■		3-4-5-6-9	■ 7
"	triode	2	2	38	2 ■		5-6	■
1AB5		2	2	30	1 ■	7	2-3-6	■ 7-8
	(1AB5—Fil. cont. also throw 7-8 together)							
1AB6		3	2	46	7 ■		2-3-4-5-6	■ 1
1AC5		2	2	31	4 ■		2-7-8	■ 5
1AC6	amp.	1	2	14	7 ■		2-3-4-5-6	■ 1
"	osc.	1	2	15	7 ■		3-4-5	■
1AD4		2	2	26	5 ■		1-2-4	■ 3
1AD5		2	2	32	4 ■		2-7-8	■ 5
1AE4		1	2	11	7 ■		2-3-6	■ 1-5
	(1AE4—Fil. Cont. also throw 1-5 together)							
1AF4		2	2	29	7 ■		2-3-6	■ 1-5
	(1AF4—Fil. Cont. also throw 1-5 together)							
1AF5		2	2	31	1 ■		3-4-5-6	■ 7
1AG4		2	2	30	3 ■		1-2-4	■ 5
1AG5	pent.	2	2	34	4 ■		1-2-5	■ 6
"	†diode	3	2	37	4 ■		3	■
1AH4		2	2	29	3 ■		1-2-4	■ 5
1AH5	pent.	2	2	42	7 ■		4-5-6	■ 1
"	†diode	3	2	28	7 ■		3	■
1AJ4	pent.	3	2	32	7 ■		2-3-6	■ 1-5
	(1AJ4—Fil. Cont. Also Throw 1-5 together)							
1AJ5	pent.	2	2	36	4 ■		1-2-5	■ 6
"	†diode	3	2	33	4 ■		3	■
1AK4		3	2	27	3 ■		1-2-4	■ 5
	(1AK4—Read on "Special" Scale)							
1AK5	pent.	3	2	35	4 ■		1-2-5	■ 6
"	†diode	3	2	43	4 ■		3	■
	(1AK5—Pent. Section—Read on "Special" Scale)							
1AN5		1	2	17	7 ■		2-3-4-6	■ 1-5
	(1AN5—Fil. Cont. Also Throw 1-5 together)							
1AX2	Caution—Levers 5-8 must be thrown to position "E" before inserting tube and must remain in position "E" throughout all tests, including short tests.							

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
1AX2		5	2	38	2	■	5-8	10	■	●
	●(1AX2—Fil. Cont. must show short on 1-4-6-9) (1AX2—Use Red Grid Cap) (1AX2—May show short on 3-7)									
1B4		2	3	34	1	■		2-3-9	■	4
1B5	triode	2	3	34	1	■		2-5	■	6
"	†diode-1	3	3	40	1	■		3	■	
"	†diode-2	3	3	40	1	■		4	■	
1B7	total	2	2	31	2	■		3-4-5-6-9	■	7
"	triode	2	2	35	2	■		5-6	■	
1B8	†diode	3	2	45	2	■		8	■	7
"	triode	2	2	35	2	■		6-9	■	
"	pent	2	2	31	2	■		3-4-5	■	
1C3		2	2	32	1	■	2	4-6	■	7
	(1C3—Must show short on 2-6) (1C3—Plate Short Test—Throw 2-6 together)									
1C5		2	2	30	2	■		3-4-5	■	7
1C6	total	2	3	32	1	■		2-3-4-5-9	■	6
"	triode	2	3	36	1	■		3-4	■	
1C7	total	2	3	33	2	■		3-4-5-6-9	■	7
"	triode	2	3	37	2	■		5-6	■	
1C8	triode	2	2	36	4	■	1	2-7	■	5
"	total	2	2	36	4	■	1	2-6-7-8	■	
	(1C8—May show short on 1)									
1C21		4	18	13		■		5	■	
	(1C21—May show short on 2-7)									
1D3		2	2	26	4	■		1-8	■	5
1D5		2	3	33	2	■		3-4-9	■	7
1D7	total	2	3	35	2	■		3-4-5-6-9	■	7
"	triode	2	3	40	2	■		5-6	■	
1D8	†diode	3	2	40	2	■		8	■	7
"	triode	2	2	38	2	■		6-9	■	
"	pent	2	2	32	2	■		3-4-5	■	
1DN5	pent	2	2	34	1	■		2-3-6	■	7
"	†diode	3	2	43	1	■		4	■	
1E4		2	2	31	2	■		3-5	■	7
1E5		2	3	34	2	■		3-4-9	■	7
1E7	pent-1	2	3	30	2	■		3-4-8	■	7
"	pent-2	2	3	30	2	■		5-6-8	■	
1E8	triode	2	2	33	4	■		2-7	■	5
"	total	2	2	33	4	■		2-6-7-8	■	
1F4		2	3	31	1	■		2-3-4	■	5
1F5		2	3	31	2	■		3-4-5	■	7
1F6	†diode-1	3	3	40	1	■		4	■	6
"	†diode-2	3	3	40	1	■		5	■	
"	pent	2	3	35	1	■		2-3-9	■	
1F7	†diode-1	3	3	40	2	■		4	■	7
"	†diode-2	3	3	40	2	■		5	■	
"	pent	2	3	35	2	■		3-6-9	■	
1G4		2	2	32	2	■		3-5	■	7
1G5		2	3	30	2	■		3-4-5	■	7
1G6	triode-1	2	2	32	2	■		3-4	■	7
"	triode-2	2	2	32	2	■		5-6	■	
1H2		5	2	17	●	■		10	■	1-4-6-9
	●(1H2—Throw levers 2-5-8 to "D") (1H2—Fil. Cont. also throw 1-4-6-9 together) (1H2—Must show short on 1-2-4-5-6-8-9) (1H2—Use Red Grid Cap)									

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
1H4		2	3	34	2	■		3-5	■	7
1H5	†diode	3	2	35	2	■		5	■	7
"	triode	2	2	35	2	■		3-9	■	
1H6	†diode-1	3	3	45	2	■		4	■	7
"	†diode-2	3	3	45	2	■		5	■	
"	triode	2	3	34	2	■		3-6	■	
1J5		2	3	31	2	■		3-4-5	■	7
1J6	triode-1	2	3	31	2	■		3-4	■	7
"	triode-2	2	3	31	2	■		5-6	■	
1L6	total	2	2	35	1	■		2-3-4-5-6	■	7
"	triode	2	2	39	1	■		3-4	■	
1LA4		2	2	32	1	■		2-3-6	■	8
1LA6	total	2	2	34	1	■		2-3-4-5-6	■	8
"	triode	2	2	39	1	■		3-4	■	
1LB4		2	2	31	1	■		2-3-6	■	8
1LC5		2	2	31	1	■	5	2-3-4-6	■	5-8
	(1LC5—Fil. Cont. Also Throw 5-8 together)									
1LC6	total	2	2	36	1	■		2-3-4-5-6	■	8
"	triode	2	2	42	1	■		3-4	■	
1LD5	pent.	2	2	34	1	■		2-3-6	■	8
"	†diode	3	2	40	1	■		4	■	
1LE3		2	2	32	1	■		2-6	■	8
1LF3		2	2	32	1	■		2-6	■	8
1LG5		2	2	31	1	■		2-3-4-6	■	8
	(1LG5—May show short on 5)									
1LH4	triode	2	2	35	1	■		2-6	■	8
"	†diode	3	2	35	1	■		4	■	
1LN5		2	2	31	1	■	5	2-3-4-6	■	5-8
	(1LN5—Fil. Cont. Also Throw 5-8 together)									
1M3		3	2	0	4	■		1-8	■	5
	(1M3—See Instructions for Eye Test)									
1N3		3	2	0	4	■		1-8	■	5
	(1N3—See Instructions for Eye Test)									
1N5		2	2	31	2	■		3-4-9	■	7
1N6	pent.	2	2	33	2	■		3-4-5	■	7
"	†diode	3	2	40	2	■		6	■	
1P5		2	2	32	2	■		3-4-9	■	7
1Q5		2	2	29	2	■		3-4-5	■	7
1Q6	pent.	2	2	35	4	■		2-7-8	■	5
"	†diode	3	2	45	4	■		6	■	
1S2	Caution—Levers 5–8 must be thrown to position "E" before inserting tube and must remain in position "E" throughout all tests, including short tests.									
		5	2	19	2	■	5–8	10	■	●
	●(1S2—Fil. Cont.—Must show short on 1–4–6–9)									
	(1S2—Use Red Grid Cap)									
	(1S2—May Show Short on 3–7)									
1S4		2	2	29	7	■	5-6	2-3-4	■	1-5
	(1S4—Must show short on 2-6)									
	(1S4—Fil. Cont. Also Throw 1-5 together)									
	(1S4—Plate Short Test—Throw 2-6 together)									
1SA6		2	2	31	2	■		3-4-6-8	■	7
1SB6	pent.	2	2	37	2	■		3-4-8	■	7
"	†diode	3	2	40	2	■		5	■	

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
1T5		2	2	31	2		3-4-5	7
1T6	pent.	2	2	33	4		1-3-8	5
"	†diode	3	2	40	4		6	
1U6	triode	2	2	40	1		3-4	7
"	total	2	2	35	1		2-3-4-5-6	
1V		1	7	8	1		2	4
1V5		2	2	33	4		2-7-8	5
1V6	triode	2	2	35	4		5-6	7
"	pent.	2	2	30	4		1-2-3	
1W4		2	2	33	1		2-3-6	7
1W5		2	2	32	4		2-7-8	5
2A3		1	4	7	1		2-3	4
2A4		1	4	9	2		3-5	7
2A5		1	4	11	1		2-3-4	6
2A6	triode	1	4	10	1		2-9	6
"	†diode-1	3	4	35	1		3	
"	†diode-2	3	4	35	1		4	
2A7	total	1	4	8	1		2-3-4-5-9	7
"	triode	1	4	11	1		4-5	
2AF4		2	4	23	3	1-2	6-7	4
	(2AF4—Must show short on 1-2-6-7) (2AF4—Plate Short Test—Throw 1-7 together) (2AF4—Grid Short Test—Throw 2-6 together)							
2B5	triode-1	1	2	14	2-7		6-8	4-5
"	triode-2	1	2	14	2-7		1-3	
	(2B5—Fil. Cont. Also Throw 4-5 together)							
2B7	pent.	1	4	19	1		2-3-9	7
"	†diode-1	3	4	35	1		4	
"	†diode-2	3	4	35	1		5	
2BN4		2	3	23	3		5-7	4
	(2BN4—Must show short on 1-2-6-7) (2BN4—Grid Short Test—Throw 2-7 together) (2BN4—Cathode Short Test—Throw 1-6 together)							
2C22		1	7	8	2		9-10	7
	(2C22—Black Cap on side nearest Octal Key)							
2C51	triode-1	2	7	24	1		3-4	9
"	triode-2	2	7	24	1		6-7	
2C52	triode-1	1	10	8	7		1-2	8
"	triode-2	1	10	8	7		4-5	
2C53		1	7	17	2		5-9	7
2D21		1	7	3	3	5	1-6-7	4
	(2D21—Must show short on 5-7) (2D21—Screen Short Test—Throw 5-7 together)							
2E5	triode	1	4	24	1		2-3	6
"	eye	4	4	0	1		2-4	
	(2E5—See instructions for Eye Test)							
2E24		1	4	7	2-7		3-5-9	1-4-6
	(2E24—Fil. Cont. Also Throw 1-4-6 together)							
2E25		1	7	12	2		4-5-8-9	7
2E26		1	7	5	2		3-5-9	7
	(2E26—Must show short on 1-4-6) (2E26—Cathode Short Test—Throw 1-4-6 together)							
2E30		1	5	9	7		1-5-6	3-4
	(2E30—Fil. Cont. Also Throw 3-4 together)							

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
2E31		2	2	29	3		1-2-4	5
2E32		2	2	29	3		1-2-4	5
2E35		2	2	32	3		1-2-4	5
2E36		2	2	32	3		1-2-4	5
2E41	pent.	2	2	33	4		1-2-5	6
"	†diode	3	2	48	4		3	
2E42	pent.	2	2	33	4		1-2-5	6
"	†diode	3	2	48	4		3	
2F7	triode	1	4	30	1		4-5	7
"	pent.	1	4	15	1		2-3-9	
2G5	triode	1	4	21	1		2-3	6
"	eye	4	4	0	1		2-4	
	(2G5—See instructions for Eye Test)							
2G21	triode	2	2	32	4		1-3	7
"	total	2	2	30	4		1-2-3-5-6	
2G22	triode	2	2	32	4		1-3	7
"	total	2	2	30	4		1-2-3-5-6	
2T4		2	4	22	3	1-2	6-7	4
	(2T4—Must show short on 1-2-6-7) (2T4—Plate Short Test—Throw 1-7 together) (2T4—Grid Short Test—Throw 2-6 together)							
2W3		1	4	18	2		4	8
2X2-879		5	4	17	1		9	4
2X3		1	4	17	2		4	8
2Y3		1	4	15	2		4	8
2Z2		1	4	23	1		2	4
3A4		2	2	30	5	2	3-4-6	1-7
	(3A4—Must show short on 2-6) (3A4—Fil. Cont. Also throw 1-7 together) (3A4—Plate Short Test—Throw 2-6 together)							
3A5	triode-1	2	2	28	4		2-3	1-7
"	triode-2	2	2	28	4		5-6	
	(3A5—Fil. Cont. Also throw 1-7 together)							
3A8	†diode	3	2	35	1		8	2-7
"	triode	2	2	36	1		5-6	
"	pent.	2	2	32	1		3-4-9	
	(3A8—Fil. Cont. Also Throw 2-7 together)							
3AF4		2	5	23	3	1-2	6-7	4
	(3AF4—Must show short on 1-2-6-7) (3AF4—Grid Short Test—Throw 2-6 together) (3AF4—Plate Short Test—Throw 1-7 together)							
3B5		2	2	29	8		3-4-5	2-7
	(3B5—Fil. Cont. Also Throw 2-7 together)							
3B7	triode-1	2	2	29	4		6-7	1-8
"	triode-2	2	2	29	4		2-3	
	(3B7—Fil. Cont. Also Throw 1-8 together)							
3C4		2	2	28	5		2-3-6	1-7
3C5		2	2	30	8		3-4-5	2-7
	(3C5—Fil. Cont. Also Throw 2-7 together)							
3C6	triode-1	2	2	33	7		5-6	1-8
"	triode-2	2	2	33	7		3-4	
	(3C6—Fil. Cont. Also Throw 1-8 together)							

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
3D6		2	2	28	7	■	2-3-6	■ 1-8
	(3D6—Fil. Cont. Also Throw 1-8 together)							
3E6		2	2	28	5	■	2-3-4-6	■ 1-8
	(3E6—Fil. Cont. Also Throw 1-8 together)							
3LF4		2	2	28	7	■	2-3-6	■ 1-8
	(3LF4—Fil. Cont. Also Throw 1-8 together)							
3Q4		2	2	29	5	■	6 2-3-4	■ 1-7
	(3Q4—Must show short on 2-6) (3Q4—Fil. Cont. Also Throw 1-7 together) (3Q4—Plate Short Test—Throw 2-6 together)							
3Q5		2	2	28	8	■	3-4-5	■ 2-7
	(3Q5—Fil. Cont. Also Throw 2-7 together)							
4A6	triode-1	1	3	17	8	■	3-4	■ 2-7
"	triode-2	1	3	17	8	■	5-6	■
	(4A6—Fil. Cont. Also Throw 2-7 together)							
5A6		1	4	8	9	■	3 1-6-7-8	■ 4-5
	(5A6—Must show short on 3-8) (5A6—Fil. Cont. Also Throw 4-5 together) (5A6—Suppressor Short Test—Throw 3-8 together)							
5AX4	plate-1	1	6	18	2	■	4	■ 8
"	plate-2	1	6	18	2	■	6	■
5AZ4	plate-1	1	6	19	2	■	4	■ 8
"	plate-2	1	6	19	2	■	6	■
5B8	triode	2	6	24	4	■	2-3	■ 5
"	pent.	2	6	23	4	■	6-8-9	■
	(5B8—May show short on 1)							
5J6	triode–1	2	6	24	3	■	2–5	■ 4
"	triode–2	2	6	24	3	■	1–6	■
5R4GY	plate-1	1	6	15	2	■	4	■ 8
"	plate-2	1	6	15	2	■	6	■
5T4	plate-1	1	6	10	2	■	4	■ 8
"	plate-2	1	6	10	2	■	6	■
5V3	plate-1	1	6	9	2	■	4	■ 8
"	plate-2	1	6	9	2	■	6	■
5V4	plate-1	1	6	6	2	■	4	■ 8
"	plate-2	1	6	6	2	■	6	■
5W4	plate-1	1	6	20	2	■	4	■ 8
"	plate-2	1	6	20	2	■	6	■
5X4	plate-1	1	6	11	7	■	3	■ 8
"	plate-2	1	6	11	7	■	5	■
5Y4	plate-1	1	6	20	7	■	3	■ 8
"	plate-2	1	6	20	7	■	5	■
5Z3	plate-1	1	6	13	1	■	2	■ 4
"	plate-2	1	6	13	1	■	3	■
5Z4	plate-1	1	6	6	2	■	4	■ 8
"	plate-2	1	6	6	2	■	6	■
6A3		1	7	8	1	■	2-3	■ 4
6A4-LA		1	7	12	1	■	2-3-4	■ 5
6A5		1	5	5	8	■	3-5	■ 2-7
	(6A5—Fil. Cont. Also Throw 2-7 together)							
6A6	triode-1	1	7	10	1	■	2-3	■ 7
"	triode-2	1	7	10	1	■	5-6	■
6A7	total	1	7	9	1	■	2-3-4-5-9	■
"	triode	1	7	11	1	■	4-5	■ 7

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
6A8	total	1	7	9	2	■		3-4-5-6-9	■	7
"	triode	1	7	11	2	■		5-6	■	
6AB5	triode	1	7	19	1	■		2-3	■	6
"	eye	4	7	0	1	■		2-4	■	
	(6AB5—See Instructions for Eye Test)									
6AB7		1	7	5	2	■		3-4-6-8	■	7
6AC5		1	7	11	2	■		3-5	■	7
6AC7		1	7	3	2	■		3-4-6-8	■	7
6AD5		1	7	7	2	■		3-5	■	7
6AD6		4	7	0	2	■		3-4-5	■	7
	(6AD6—See Instructions for Eye Test)									
6AD7	triode	1	7	31	2	■		1-6	■	7
"	pent.	1	7	11	2	■		3-4-5	■	
6AE5		1	7	6	2	■		3-5	■	7
6AE6	triode-1	1	7	14	2	■		3-5	■	7
"	triode-2	1	7	14	2	■		4-5	■	
6AE7	triode-1	1	7	10	2	■		3-6	■	7
"	triode-2	1	7	10	2	■		3-4	■	
6AF3		3	7	28	4	■	2	9	■	5
	(6AF3—May show short on 2–9) (6AF3—Use red grid cap) (6AF3—Read on "Diodes–Special" scale)									
6AF4		2	7	23	3	■	1-2	6-7	■	4
	(6AF4—Must show short on 1-2-6-7) (6AF4—Plate Short Test—Throw 1-7 together) (6AF4—Grid Short Test—Throw 2-6 together)									
6AF5		1	7	7	2	■		3-5	■	7
6AF6		4	7	0	2	■		3-4-5	■	7
	(6AF6—See Instructions for Eye Test)									
6AG5		2	7	24	3	■		1-5-6	■	4
	(6AG5—Must show short on 2-7) (6AG5—Cathode Short Test—Throw 2-7 together)									
6AG6		2	7	24	2	■		3–4–5	■	7
6AG7		1	7	3	2	■		1-4-6-8	■	7
6AH4		1	7	4	2	■		1-5	■	7
6AH5		1	7	*7	2	■		1-4-6	■	7
6AH6		1	7	3	3	■		1-2-5-6	■	4
6AJ4		2	7	22	7	■	1-3-4-9	5-6	■	8
	(6AJ4—Must show short on 1-3-4-6-9) (6AJ4—Grid Short Test—Throw 1-3-4-6-9 together)									
6AJ5		1	7	5	3	■		1-5-6	■	4
	(6AJ5—Must show short on 2-7) (6AJ5—Cathode Short Test—Throw 2-7 together)									
6AJ7		1	7	3	2	■		3-4-6-8	■	7
6AK4		2	7	23	3	■		1-8	■	6
6AK6		1	7	10	3	■		1-2-5-6	■	4
6AK7		1	7	3	2	■		1-4-6-8	■	7
6AL6		1	7	7	2	■		4-5-9	■	7
6AL7*		5	7	0	*2	■		3	■	7
	*(6AL7—Also Throw 4-5-6 to D) (See Instructions for FM/AM Eye Tests)									
6AM4		2	7	22	7	■	1-3-4-6	5-9	■	8
	(6AM4—Must show short on 1-3-4-6-9) (6AM4—Grid Short Test—Throw 1-3-4-6-9 together)									

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
6AM8	pent.	2	7	23	4		2-3-6-9	5
"	†diode	3	7	28	4		8	
6AN5		1	7	4	3		1-5-6	4
	(6AN5—Must show short on 2-7)							
	(6AN5—Cathode Short Test—Throw 2-7 together)							
6AQ6	triode	2	7	28	3		1-7	4
"	†diode-1	3	7	35	3		5	
"	†diode-2	3	7	35	3		6	
6AQ7	triode	1	7	10	7		4-5	8
"	†diode-1	3	7	35	7		3	
"	†diode-2	3	7	35	7		1	
6AR5		1	7	9	3		1-5-6	4
6AR6		2	7	25	6		3-5-7	8
6AR8		2	7	24	4		3-6	5
6AS6		1	7	4	3		1-5-6-7	4
6AS7	triode-1	1	7	3	7		1-2	8
"	triode-2	1	7	3	7		4-5	
6AU7	triode-1	1	5	8	9		1-2	4-5
"	triode-2	1	5	8	9		6-7	
	(6AU7—Fil. Cont. also throw 4-5 together)							
6AX7	triode-1	1	5	8	9		6-7	4-5
"	triode-2	1	5	8	9		1-2	
	(6AX7—Fil. Cont. also throw 4-5 together)							
6B4		1	7	8	2		3-5	7
6B5	input	1	7	24	1		3-4	6
"	output	1	7	16	1		2-4	
6B6	triode	1	7	11	2		3-9	7
"	†diode-1	3	7	35	2		4	
"	†diode-2	3	7	35	2		5	
6B7	pent.	1	7	19	1		2-3-9	7
"	†diode-1	3	7	35	1		4	
"	†diode-2	3	7	35	1		5	
6B8	pent.	1	7	19	2		3-6-9	7
"	†diode-1	3	7	35	2		4	
"	†diode-2	3	7	35	2		5	
6BA5		2	7	24	4		1-3-5	6
6BA7	total	1	7	4	4		1-2-6-7-9	5
"	triode	1	7	4	4		1-2	
6BA8	triode	1	7	5	4		2-3	5
"	pent.	2	7	22	4		7-8-9	
6BC7	†diode-1	3	7	25	4		8	5
"	†diode-2	3	7	25	4		6	
"	†diode-3	3	7	25	4		2	
6BD5		1	7	5	2		1-5-8	7
6BF5		1	7	3	3	1	5-6-7	4
	(6BF5—Must show short on 1-7)							
	(6BF5—Grid Short Test—Throw 1-7 together)							
6BG7	triode-1	2	7	24	3		7-8	6
"	triode-2	2	7	24	3		1-2	
6BJ7	†diode-1	3	7	28	4		8	5
"	†diode-2	3	7	28	4		6	
"	†diode-3	3	7	28	4		2	
	(6BJ7—May show short on 3)							
6BN7	triode-1	1	7	3	4		7-9	5
"	triode-2	2	7	27	4		1-2	

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
6BR5	triode	1	7	15	4	■		1–7	■	5
"	eye	4	7	0	4	■	3–6	7–9	■	
	(6BR5—May show short on 3–6–9)									
	(6BR5—See instructions for Eye Test)									
6BX6		2	7	22	4	■	3	2-7-8	■	5
	(6BX6—Must show short on 1-3)									
	(6BX6—Cathode Short Test—Throw 1-3 together)									
6BY5	plate-1	1	7	7	2	■		5	■	7
"	plate-2	1	7	7	2	■		4	■	
6C5		1	7	12	2	■		3-5	■	7
6C6		1	7	10	1	■		2-3-4-9	■	6
6C7	triode	1	7	12	1	■		2-9	■	7
"	†diode-1	3	7	35	1	■		4	■	
"	†diode-2	3	7	35	1	■		5	■	
6C8	triode-1	1	7	12	2	■		3-9	■	7
"	triode-2	1	7	12	2	■		5-6	■	
6CD7		4	7	0	2	■		3–6–5	■	7
	(6CD7—See Instructions for Eye Test)									
6CG8	triode-1	2	7	24	4	■		1-2	■	5
"	pent	2	7	23	4	■		6-7-9	■	
	(6CG8—Must show short on 3-8)									
	(6CG8—Cathode Short Test—Throw 3-8 together)									
6D4		1	7	7	3	■		1-7	■	4
6D5		1	7	11	2	■		3-5	■	7
6D6		1	7	11	1	■		2-3-4-9	■	6
6D7		1	7	10	1	■		2-3-4-9	■	7
6D8	total	1	7	10	2	■		3-4-5-6-9	■	7
"	triode	1	7	13	2	■		5-6	■	
6DZ7	pent.-1	1	7	6	2	■		4-5-6	■	7
"	pent.-2	1	7	6	2	■		1-3-4	■	
6E5	triode	1	7	18	1	■		2-3	■	6
"	eye	4	7	0	1	■		2-4	■	
	(6E5—See Instructions for Eye Test)									
6E6	triode-1	1	7	12	1	■		2-3	■	7
"	triode-2	1	7	12	1	■		5-6	■	
6E7		1	7	11	1	■		2-3-4-9	■	7
6F4		1	7	3	1	■	2-7	3-8	■	4
	(6F4—Plate Short Test—Throw 2-3 together)									
	(6F4—Grid Short Test—Throw 7-8 together)									
	(6F4—Must show short on 2-3-7-8 individually)									
6F5		1	7	8	2	■		4-9	■	7
6F6		1	7	11	2	■		3-4-5	■	7
6F7	triode	1	7	32	1	■		4-5	■	7
"	pent.	1	7	18	1	■		2-3-9	■	
6F8	triode-1	1	7	8	2	■		3-9	■	7
"	triode-2	1	7	8	2	■		5-6	■	
6FH5		2	7	23	3	■		2–5	■	4
	(6FH5—Must show short on 1–7)									
	(6FH5—Cathode short test—Throw 1–7 together)									
6G5	triode	1	7	19	1	■		2-3	■	6
"	eye	4	7	0	1	■		2-4	■	
	(6G5—See Instructions for Eye Test)									

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
6G6		1	7	11	2	■		3-4-5	■	7
6H5	triode	1	7	20	1	■		2-3	■	6
"	eye	4	7	0	1	■		2-4	■	
	(6H5—See Instructions for Eye Test)									
6H6	†diode-1	3	7	30	2	■		3	■	7
"	†diode-2	3	7	30	2	■		5	■	
6J4		1	7	4	3	■	1-5	6-7	■	4
	(6J4—Must show short on 1-5-6)									
	(6J4—Grid Short Test—Throw 1-5-6 together)									
6J7		1	7	11	2	■		3-4-5-9	■	7
6J8	triode	2	7	28	2	■		5-6	■	7
"	heptode	1	7	8	2	■		3-4-9	■	
6K5		1	7	7	2	■		3-9	■	7
6K7		1	7	12	2	■		3-4-5-9	■	7
6K8	triode	1	7	5	2	■		5-6	■	7
"	heptode	1	7	5	2	■		3-4-5-9	■	
6L5		1	7	13	2	■		3-5	■	7
6L7		1	7	8	2	■		3-4-5-9	■	7
6N4		1	7	5	3	■	1	5-7	■	4
	(6N4—Grid Short Test—Throw 1-7 together)									
	(6N4—Cathode Short Test—Throw 2-6 together)									
	(6N4—Must show short on 1-2-6-7 individually)									
6N5	triode	1	7	19	1	■		2-3	■	6
"	eye	4	7	0	1	■		2-4	■	
	(6N5—See Instructions for Eye Test)									
6N6		1	7	12	2	■		3-4-5	■	7
6N7	triode-1	1	7	11	2	■		3-4	■	7
"	triode-2	1	7	11	2	■		5-6	■	
6N8	pent.	2	7	25	4	■		1-2-6-9	■	5
"	†diode-1	3	7	34	4	■		7	■	
"	†diode-2	3	7	32	4	■		8	■	
6P5		1	7	13	2	■		3-5	■	7
6P7	triode	1	7	32	2	■		6-7	■	3
"	pent.	1	7	18	2	■		4-5-9	■	
6Q4		1	7	3	1	■	2-7	3-8	■	4
	(6Q4—Plate Short Test—Throw 2-3 together)									
	(6Q4—Grid Short Test—Throw 7-8 together)									
	(6Q4—Must show short on 2-3-7-8 individually)									
6Q5		1	7	8	2	■		3-5	■	7
6Q7	triode	1	7	9	2	■		3-9	■	7
"	†diode-1	3	7	35	2	■		4	■	
"	†diode-2	3	7	35	2	■		5	■	
6R6		1	7	13	2	■		3-5-9	■	7
6R7	triode	1	7	11	2	■		3-9	■	7
"	†diode-1	3	7	35	2	■		4	■	
"	†diode-2	3	7	35	2	■		5	■	
6R8	triode	1	7	11	4	■		8-9	■	5
"	†diode-1	3	7	27	4	■		2	■	
"	†diode-2	3	7	27	4	■		1	■	
"	†diode-3	3	7	27	4	■		6	■	
6S2	Caution—Levers 5–8 must be thrown to position "E" before inserting tube and must remain in position "E" throughout all tests, including short tests.									
"		5	7	19	2	■	5–8	10	■	●
	●(6S2—Fil. Cont.—1–4–6–9)									
	(6S2—Use red grid cap)									

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
6S7		1	7	10	2	■	3-4-5-9	7
6S8	triode	1	7	10	7	■	6–9	8
"	†diode–1	3	7	35	7	■	3	
"	†diode–2	3	7	35	7	■	4	
"	†diode–3	3	7	35	7	■	1	
	(6S8—May show short on 2)							
6SB7	total	1	7	4	2	■	3-4-5-8	7
"	triode	1	7	4	2	■	4-5	
6SD7		1	7	5	2	■	3-4-6-8	7
6SF5		1	7	8	7	■	3–5	8
6SF7	pent.	1	7	12	7	■	2–4–6	8
"	†diode	3	7	40	7	■	5	
6SG7		1	7	5	2	■	4–6–8	7
	(6SG7—Must show short on 3–5)							
	(6SG7—Cathode short test throw 3–5 together)							
6SH7		1	7	5	2	■	4–6–8	7
	(6SH7—Must show short on 3–5)							
	(6SH7—Cathode short test—throw 3–5 together)							
6SS7		1	7	11	2	■	3–4–6–8	7
6ST7	triode	1	7	11	7	■	2–6	8
"	†diode–1	3	7	35	7	■	5	
"	†diode–2	3	7	35	7	■	4	
6SU7	triode–1	1	7	10	7	■	1–2	8
"	triode–2	1	7	10	7	■	4–5	
6SV7	pent.	1	7	6	7	■	2–4–6	8
"	†diode	3	7	30	7	■	5	
6SZ7	triode	1	7	11	7	■	2-6	8
"	†diode-1	3	7	40	7	■	5	
"	†diode-2	3	7	40	7	■	4	
6T5	triode	1	7	21	1	■	2–3	6
"	eye	4	7	0	1	■	2–4	
	(6T5—See Instructions for Eye Test)							
6T7	triode	1	7	12	2	■	3-9	7
"	†diode-1	3	7	35	2	■	5	
"	†diode-2	3	7	35	2	■	4	
6U4		1	7	5	7	■	5	8
6U5	triode	1	7	21	1	■	2–3	6
"	eye	4	7	0	1	■	2–4	
	(6U5—See Instructions for Eye Test)							
6U6		1	7	6	2	■	3-4-5	7
6U7		1	7	11	2	■	3-4-5-9	7
6V7	triode	1	7	15	2	■	3-9	7
"	†diode-1	3	7	35	2	■	4	
"	†diode-2	3	7	35	2	■	5	
6W7		1	7	10	2	■	3-4-5-9	7
6X2		4	7	25	2	■	9	1
	(6X2—Connect 2 bottom leads to contacts 1 and 2 of Octal socket. Top lead connect to grid cap)							
6Y5	Plate-1	1	7	9	1	■	3	6
"	Plate-2	1	7	9	1	■	5	
6Y6		1	7	5	2	■	3–4–5	7
6Y7	triode-1	1	7	9	2	■	3-4	7
"	triode-2	1	7	9	2	■	5-6	
6Z3		1	7	6	1	■	2	4

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
6Z4	plate–1	1	7	9	1		2	5
"	plate–2	1	7	9	1		3	
6Z5	Plate-1	1	7	8	1		3	2-6
"	Plate-2	1	7	8	1		5	

(6Z5—Fil. Cont. Also Throw 2-6 together)

6Z6	plate–1	1	7	9	2		3	7
"	plate–2	1	7	9	2		5	
6Z7	triode-1	1	7	8	2		3-4	7
"	triode-2	1	7	8	2		5-6	
6ZY5	Plate-1	1	7	11	2		3	7
"	Plate-2	1	7	11	2		5	
7A4		1	7	7	1		2-6	8
7A5		1	7	5	1		2-3-6	8
7A6	†diode-1	3	7	30	1		3	8
"	†diode-2	3	7	30	1		6	
7A7		1	7	9	1		2-3-4-6	8
7A8	total	1	7	9	1		2-3-4-5-6	8
"	triode	1	7	11	1		3-4	
7AD7		1	7	4	1		2–3–4–6	8
7AF7	triode–1	1	7	9	1		3–4	8
"	triode–2	1	7	9	1		5–6	
7AG7		1	7	4	1		2–3–4–6	8
7AH7		1	7	4	1		2–3–4–6	8
7AJ7		1	7	7	1		2–3–4–6	8
7AK7		1	7	5	1		2–3–4–6	8
7AN7	triode–1	2	8	23	4		6–9	5
"	triode–2	2	8	23	4		2–3	

(7AN7—Must show short on 7–8)

(7AN7—Cathode short test—triode 1 section, Throw 7–8 together)

7B4		1	7	7	1		2-6	8
7B5		1	7	12	1		2-3-6	8
7B6	triode	1	7	11	1		2-3	8
"	†diode-1	3	7	35	1		5	
"	†diode-2	3	7	35	1		6	

(7B6—Must show short on 4-7)

(7B6—Cathode Short Test—Throw 4-7 together)

7B7		1	7	11	1		2-3-4-6	8
7B8	total	1	7	7	1		2-3-4-5-6	8
"	triode	1	7	9	1		3-4	
7C4	†diode	3	7	30	1		4	8
7C5		1	7	6	1		2-3-6	8
7C6	triode	1	7	14	1		2-3	8
"	†diode-1	3	7	35	1		5	
"	†diode-2	3	7	35	1		6	

(7C6—Must show short on 4-7)

(7C6—Cathode Short Test—Throw 4-7 together)

7C7		1	7	8	1		2-3-4-6	8
7E5		1	7	5	2	1-3	5-7	8

(7E5—Plate Short Test—Throw 3-7 together)

(7E5—Grid Short Test—Throw 1-5 together)

(7E5—Cathode Short Test—Throw both 4-6)

(7E5—Must show short on 1-3-4-5-6-7 individually)

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
7E6	triode	1	7	11	1		2-3	8
"	†diode-1	3	7	35	1		5	
"	†diode-2	3	7	35	1		6	
	(7E6—Must show short on 4-7)							
	(7E6—Cathode Short Test—Throw 4-7 together)							
7E7	pent.	1	7	13	1		2-5-6	8
"	†diode-1	3	7	35	1		3	
"	†diode-2	3	7	35	1		4	
7F7	triode-1	1	7	10	1		3-4	8
"	triode-2	1	7	10	1		5-6	
7F8	triode-1	2	7	24	2		1-3	7
"	triode-2	2	7	24	2		6-8	
7G7		1	7	4	1		2-3-4-6	8
7G8	sect.-1	1	7	7	1		3-5-7	8
"	sect.-2	1	7	6	1		2-3-4	
7H7		1	7	4	1		2-3-4-6	8
7J7	hexode	1	7	7	1		2-5-6	8
"	triode	1	7	11	1		3-4	
7K7	triode	1	7	10	1		3-4	8
"	†diode-1	3	7	35	1		5	
"	†diode-2	3	7	35	1		6	
7L7		1	7	4	1		2-3-4-6	8
7N7	triode-1	1	7	8	1		3-4	8
"	triode-2	1	7	8	1		5-6	
7Q7	total	1	7	5	1		2-3-4-5-6	8
"	triode	1	7	5	1		3-4	
7R7	pent.	1	7	6	1		2-5-6	8
"	†diode-1	3	7	35	1		3	
"	†diode-2	3	7	35	1		4	
7S7	heptode	1	7	5	1		2-5-6	8
"	triode	2	7	28	1		3-4	
7T7		1	7	5	1		2-3-4-6	8
7V7		1	7	5	1		2-3-4-6	8
7W7		1	7	4	1		2-3-5-6	8
	(7W7—Must show short on 4-7)							
	(7W7—Cathode Short Test—Throw 4-7 together)							
7X6	plate-1	1	7	5	1		3	8
"	plate-2	1	7	5	1		6	
7X7	triode	1	7	10	1		2-3	8
"	†diode-1	3	7	30	1		5	
"	†diode-2	3	7	30	1		6	
7Y4	plate-1	1	7	10	1		3	8
"	plate-2	1	7	10	1		6	
7Z4	plate-1	1	7	15	1		3	8
"	plate-2	1	7	15	1		6	
9A8	triode	2	8	24	4		1–9	5
"	pent.	1	8	3	4		2–3–6	
9AK8	triode	1	9	7	4		8–9	5
"	†diode–1	3	9	35	4		6	
"	†diode–2	3	9	28	4		2	
"	†diode–3	3	9	28	4		1	
10		1	8	18	1		2-3	4
11C5		1	10	5	3	2	5–6–7	4
	(11C5—Must show short on 2–5)							
	(11C5—Grid short test—Throw 2–5 together)							
12A		1	6	9	1		2-3	4
12A4		2	7	22	3		7-9	4-5
	(12A4—Must show short on 2-7)							
	(12A4—Fil. Cont. Also Throw 4-5 together)							
	(12A4—Grid Short Test—Throw 2-7 together)							

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
12A5		1	7	10	6		2-3-4	1-7
	(12A5—Fil. Cont. Also throw 1–7 together)							
12A6		1	10	10	2		3-4-5	7
12A7	pent.	1	10	16	1		2-3-9	7
"	rect.	1	10	7	1		5	
12A8	total	1	10	9	2		3-4-5-6-9	7
"	triode	1	10	12	2		5-6	
12AV5		1	10	5	2		1-5-8	7
12AW6		1	10	4	3		1-5-6-7	4
12AY7	triode-1	2	7	28	9		6-7	4-5
"	triode-2	2	7	28	9		1-2	
	(12AY7—Fil. Cont. Also throw 4–5 together)							
12B7		1	10	9	1		2-3-4-6	8
12BA7	total	1	10	4	4		1-2-6-7-9	5
"	triode	1	10	4	4		1-2	
12BZ7	triode-1	2	7	22	9		6-7	4-5
"	triode-2	2	7	22	9		1-2	
	(12BZ7—Fil. Cont. Also throw 4–5 together)							
12C8	pent.	1	10	17	2		3-6-9	7
"	†diode-1	3	10	35	2		4	
"	†diode-2	3	10	35	2		5	
12DQ5		1	10	3	2	1-4	5-8-9	7
	(12DQ5—Must show short on 1–3–4–5–6–8)							
	(12DQ5—Grid short test—Throw 1–5 together)							
	(12DQ5—Screen short test—Throw 4–8 together)							
	(12DQ5—Cathode short test—Throw 3–6 together)							
12DW5		1	10	5	4	3	1-6-9	5
	(12DW5—Must show short on 3–6)							
	(12DW5—Grid short test—Throw 3–6 together)							
12E5		1	10	13	2		3-5	7
12F5		1	10	8	2		4-9	7
12G4		1	10	7	3	1	5-6	4
	(12G4—Must show short on 1–5)							
	(12G4—Plate short test—Throw 1–5 together)							
12H4		1	7	7	2	1	5-6	3-4
	(12H4—Fil. Cont. Also throw 3–4 together)							
	(12H4—Must show short on 1–5)							
	(12H4—Plate short test—Throw 1–5 together)							
12-H6	†diode-1	3	10	30	2		3	7
"	†diode-2	3	10	30	2		5	
12J5		1	10	9	2		3-5	7
12J7		1	10	11	2		3-4-5-9	7
12J8	tetrode	1	10	4	4		1-3-6	5
"	†diode-1	3	10	28	4		9	
"	†diode-2	3	10	28	4		8	
12K5		1	10	3	3	5	2-6-7	4
	(12K5—Must show short on 5–6)							
	(12K5—Grid short test—throw 5–6 together)							
12K7		1	10	11	2		3-4-5-9	7
12K8	triode	1	10	5	2		5-6	7
"	hexode	1	10	5	2		3-4-5-9	

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
12Q7	triode	1	10	10	2	■	3-9	7
"	†diode-1	3	10	35	2	■	4	
"	†diode-2	3	10	35	2	■	5	
12S8	triode	1	10	10	7	■	6-9	8
"	†diode-1	3	10	35	7	■	3	
"	†diode-2	3	10	35	7	■	4	
"	†diode-3	3	10	35	7	■	1	
	(12S8—May show short on 2)							
12SC7	triode-1	1	10	12	7	■	2-3	8
"	triode-2	1	10	12	7	■	4-5	
12SF5		1	10	9	7	■	3-5	8
12SF7	pent.	1	10	12	7	■	2-4-6	8
"	†diode	3	10	40	7	■	5	
12SG7		1	10	5	2	■	4-6-8	7
	(12SG7—Must show short on 3-5)							
	(12SG7—Cathode short test—Throw 3-5 together)							
12SH7		1	10	5	2	■	4-6-8	7
	(12SH7—Must show short on 3-5)							
	(12SH7—Cathode short test—Throw 3-5 together)							
12SW7	triode	1	10	12	7	■	2-6	8
"	†diode-1	3	10	35	7	■	5	
"	†diode-2	3	10	35	7	■	4	
12U7	triode-1	1	7	8	9	■	6-7	4-5
"	triode-2	1	7	8	9	■	1-2	
	(12U7—Fil. Cont. Also Throw 4-5 together)							
12Z3		1	10	5	1	■	2	4
12Z5	plate-1	1	7	8	4	■	2	1-7
"	plate-2	1	7	8	4	■	6	
	(12Z5—Fil. Cont. Also Throw 1-7 together)							
14A4		1	10	8	1	■	2-6	8
14A5		1	10	10	1	■	2-3-6	8
14A7		1	10	9	1	■	2-3-4-6	8
14B6	triode	1	10	11	1	■	2-3	8
"	†diode-1	3	10	35	1	■	5	
"	†diode-2	3	10	35	1	■	6	
	(14B6—Must show short on 4-7)							
	(14B6—Cathode Short Test—Throw 4-7 together)							
14B8	total	1	10	6	1	■	2-3-4-5-6	8
"	triode	1	10	8	1	■	3-4	
14C5		1	10	6	1	■	2-3-6	8
14C7		1	10	8	1	■	2-3-4-6	8
14E6	triode	1	10	11	1	■	2-3	8
"	†diode-1	3	10	35	1	■	5	
"	†diode-2	3	10	35	1	■	6	
	(14E6—Must show short on 4-7)							
	(14E6—Cathode Short Test—Throw 4-7 together)							
14E7	pent.	1	10	13	1	■	2-5-6	8
"	†diode-1	3	10	35	1	■	3	
"	†diode-2	3	10	35	1	■	4	
14F7	triode-1	1	10	10	1	■	3-4	8
"	triode-2	1	10	10	1	■	5-6	
14F8	triode-1	2	10	24	2	■	6-8	7
"	triode-2	2	10	24	2	■	1-3	

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
14H7		2	10	24	1		2-3-4-6	8
14J7	triode	1	10	13	1		3-4	8
"	hexode	1	10	7	1		2-5-6	
14N7	triode-1	1	10	8	1		3-4	8
"	triode-2	1	10	8	1		5-6	
14Q7	total	1	10	5	1		2-3-4-5-6	8
"	triode	1	10	5	1		3-4	
14R7	pent.	1	10	6	1		2-5-6	8
"	†diode-1	3	10	35	1		3	
"	†diode-2	3	10	35	1		4	
14S7	triode	1	10	12	1		3-4	8
"	heptode	1	10	6	1		2-5-6	
14W7		1	10	4	1		2-3-5-6	8

(14W7—Must show short on 4-7)
(14W7—Cathode Short Test—Throw 4-7 together)

14X7	triode	1	10	10	1		2-3	8
"	†diode-1	3	10	30	1		5	
"	†diode-2	3	10	30	1		6	
14Y4	plate-1	1	10	10	1		3	8
"	plate-2	1	10	10	1		6	
15		2	3	34	1		2-3-9	5
17		1	10	12	1		2-3	5
18		1	10	11	1		2-3-4	6
18A5		1	11	5	2		1–5–8	7
19	triode-1	1	3	17	1		2-3	6
"	triode-2	1	3	17	1		4-5	
20		2	5	35	1		2-3	4
22		2	5	42	1		2-3-9	4
24		1	4	12	1		2-3-9	5
25A6		1	12	7	2		3-4-5	7
25A7	pent.	1	12	10	2		3-4-5	7
"	rect.	1	12	5	2		6	
25AC5		1	12	10	2		3-5	7
25B5		1	12	13	1		2-3-4	6
25B6		1	12	5	2		3-4-5	7
25B8	triode	1	12	7	2		5-8	7
"	pent.	1	12	4	2		3-4-9	
25C6		1	12	5	2		3-4-5	7
25D8	triode	1	12	15	2		5-6	7
"	pent.	1	12	8	2		3-4-9	
"	†diode	3	12	35	2		8	
25F5		1	12	5	3	2	5-6-7	4

(25F5—Must show short on 2-5)
(25F5—Grid Short Test—Throw 2-5 together)

25L6		1	12	5	2		3-4-5	7
25N6		1	12	13	2		3-4-5	7
25X6	plate-1	1	12	5	2		3	7
"	plate-2	1	12	5	2		5	
25Y4		1	12	5	2		5	7
25Y5	plate-1	1	12	10	1		5	6
"	plate-2	1	12	10	1		2	
25Z3		1	12	5	1		2	4
25Z4		1	12	5	2		5	7
25Z5	Plate-1	1	12	6	1		5	6
"	Plate-2	1	12	6	1		2	
25Z6	Plate-1	1	12	5	2		5	7
"	Plate-2	1	12	5	2		3	
26		1	2	17	1		2-3	4
26A6		1	12	5	3		1-2-5-6	4

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
26A7	pent.-1	1	12	4	6	■		1-5-8	■	7
"	pent.-2	1	12	4	6	■		3-4-5	■	
26C6	triode	1	12	11	3	■		1-7	■	4
"	†diode-1	3	12	35	3	■		6	■	
"	†diode-2	3	12	35	3	■		5	■	
26D6		1	12	6	3	■		1-5-6-7	■	4
26E6		1	12	6	2	■		3-4-5	■	7
26Z5	plate-1	1	10	9	9	■		6	■	4-5
"	plate-2	1	10	9	9	■		1	■	
	(26Z5—Fil. Cont. Also Throw 4-5 together)									
27		1	4	14	1	■		2-3	■	5
28D7	sect-1	1	12	4	1	■		3-5-7	■	8
"	sect-2	1	12	4	1	■		2-3-4	■	
28Z5	plate-1	1	10	15	4	■		6	■	1-8
"	plate-2	1	10	15	4	■		3	■	
	(28Z5—Fil. Cont. Also Throw 1-8 together)									
30		2	3	34	1	■		2-3	■	4
31		1	3	19	1	■		2-3	■	4
32		1	3	21	1	■		2-3-9	■	4
32L7	amp.	1	13	5	2	■		3-4-5	■	7
"	rect.	1	13	5	2	■		6	■	
33		1	3	15	1	■		2-3-4	■	5
34		1	3	21	1	■		2-3-9	■	4
35/51		1	4	12	1	■		2-3-9	■	5
35Z6	plate-1	1	13	4	2	■		3	■	7
"	plate-2	1	13	4	2	■		5	■	
36		1	7	13	1	■		2-3-9	■	5
37		1	7	17	1	■		2-3	■	5
38		1	7	17	1	■		2-3-9	■	5
39/44		1	7	14	1	■		2-3-9	■	5
40		1	6	15	1	■		2-3	■	4
41		1	7	8	1	■		2-3-4	■	6
42		1	7	9	1	■		2-3-4	■	6
43		1	12	7	1	■		2-3-4	■	6
45		1	4	13	1	■		2-3	■	4
45Z3		1	14	6	1	■	2	6	■	7
	(45Z3—Fil. Cont.—Set Control "B" at 12) (45Z3—Must show short on 2-6) (45Z3—Plate Short Test—Throw 2-6 together)									
45Z5		1	14	3	7	■	3	5	■	2-3
	(45Z5—Fil. Cont. Set control "B" at 12) (45Z5—Fil. Cont. Also Throw 2-3 together)									
46		1	4	11	1	■		2-3-4	■	5
47		1	4	12	1	■		2-3-4	■	5
48		1	13	6	1	■		2-3-4	■	6
49		2	3	32	1	■		2-3-4	■	5
50		1	8	18	1	■		2-3	■	4
50Z7	plate-1	1	14	6	2	■	6	3	■	6-7
"	plate-2	1	14	6	2	■	6	5	■	
	(50Z7—Fil. Cont. Set Control "B" at 12) (50Z7—Fil. Cont. Also Throw 6-7 together)									
52		1	7	8	1	■		2-3-4	■	5
53	triode-1	1	4	11	1	■		2-3	■	7
"	triode-2	1	4	11	1	■		5-6	■	

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
55	triode	1	4	15	1		2-9	6
"	†diode-1	3	4	35	1		3	
"	†diode-2	3	4	35	1		4	
56		1	4	12	1		2-3	5
56A		1	7	12	1		2-3	5
57		1	4	10	1		2-3-4-9	6
57A		1	7	10	1		2-3-4-9	6
58		1	4	10	1		2-3-4-9	6
58A		1	7	10	1		2-3-4-9	6
59		1	4	7	1		2-3-4-5	7
RK-61		2	2	30	2		1-3	4
HY-69		1	7	14	1		2-3-9	5
70A7	amp.	1	15	5	2		3-4-5	6-7
"	*rect.	1	15	3	2			

*(70A7—Rect. Test—See instructions)
(70A7—Fil. Cont. Set Control "B" at 12)
(70A7—Fil. Cont. Also Throw 6-7 together)

70L7	amp.	1	15	4	2		3-4-5	7
"	rect.	1	15	4	2		8	

(70L7—Fil. Cont.—Set Control "B" at 12)

71		1	6	14	1		2-3	4
75	triode	1	7	10	1		2-9	6
"	†diode-1	3	7	35	1		3	
"	†diode-2	3	7	35	1		4	
HY-75		5	7	5	2		9-10	7

(HY-75—Connect Red Grid Cap to right hand side of tube, when plugged in)

76		1	7	11	1		2-3	5
77		1	7	10	1		2-3-4-9	6
78		1	7	11	1		2-3-4-9	6
79	triode-1	1	7	9	1		2-3	6
"	triode-2	1	7	9	1		5-9	
80	plate-1	1	6	18	1		2	4
"	plate-2	1	6	18	1		3	
81		1	8	30	1		2	4
82	plate-1	1	4	7	1		2	4
"	plate-2	1	4	7	1		3	
83	plate-1	1	6	7	1		2	4
"	plate-2	1	6	7	1		3	
83V	plate-1	1	6	5	1		2	4
"	plate-2	1	6	5	1		3	
84	plate-1	1	7	9	1		2	5
"	plate-2	1	7	9	1		3	
85	triode	1	7	16	1		2-9	6
"	†diode-1	3	7	35	1		3	
"	†diode-2	3	7	35	1		4	
89		1	7	9	1		2-3-4-9	6
99		2	5	41	1		2-3	4
101F		1	6	20	1		2-3	4
117L7/M7	amp	1	17	7	2		3-4-5	7
"	rect.	1	17	4	2		6	

(117L7/M7—Fil. Cont.—Set Control "B" at 12)

117N7	amp.	1	17	5	2		3-4-5	7
"	*rect.	1	17	4	2			

*(117N7—Rect. Test—See Instructions)
(117N7—Fil. Cont.—Set Control "B" at 12)

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
117P7	amp.	1	17	6	2	■		3-4-5	■	7
"	*rect.	1	17	4	2	■			■	
	(117P7—Fil. Cont.—Set Control "B" at 12)									
	*(117P7—Rect. Test—See Instructions)									
117Z3		1	17	5	3	■	1	5	■	4
	(117Z3—Fil. Cont.—Set Control "B" at 12)									
	(117Z3—May show short on 1-5)									
117Z4		1	17	5	2	■		5	■	7
	(117Z4—Fil. Cont.—Set Control "B" at 12)									
117Z6	plate-1	1	17	5	2	■		3	■	7
"	plate-2	1	17	5	2	■		5	■	
	(117Z6—Fil. Cont.—Set Control "B" at 12)									
205D		1	6	16	1	■		2-3	■	4
	(205-D—Test with Bayonet Pin towards upper left corner)									
262B		1	9	16	1	■		2-9	■	4
264C		1	2	24	1	■		2-3	■	4
271A		1	6	9	1	■		2-3	■	5
272A		1	9	15	1	■		2-3	■	5
274A	plate-1	1	6	15	1	■		2	■	4
"	plate-2	1	6	15	1	■		3	■	
300B		1	6	7	1	■		2-3	■	4
307A		1	6	8	1	■		2-3-4-9	■	5
310A		1	9	10	1	■		2-3-4-9	■	6
313C		4	8	13	-	■		2	■	
	(313C—May show short on 1-4)									
328A		1	8	10	1	■		2-3-4-9	■	6
329A		1	8	9	1	■		2-3-9	■	5
331B		1	9	43	5	■		2-3-10	■	1
336A		1	9	9	1	■		2-3-4	■	6
345A	plate-1	1	7	5	1	■		2	■	5
"	plate-2	1	7	5	1	■		3	■	
347A		1	7	16	2	■		4-9	■	7
348A		1	7	9	2	■		3-4-5-9	■	7
349A		1	7	7	2	■		3-4-5	■	7
350A		5	7	4	1	■		2-3-9	■	5
350B		5	7	4	2	■		3-4-5	■	7
351A	plate-1	1	7	6	2	■		3	■	7
"	plate-2	1	7	6	2	■		5	■	
352A	triode	1	9	15	1	■		2-9	■	6
"	†diode-1	3	9	32	1	■		3	■	
"	†diode-2	3	9	32	1	■		4	■	
TS-383		4	7	17	4	■		1	■	3
398A		1	7	7	2	■		3-4-6-8	■	7
401A		2	7	27	3	■		1-5-6	■	4
	(401A—Must show short on 2-7)									
	(401A—Cathode Short Test—Throw 2-7 together)									
407A	triode-1	2	11	24	5	■		3-4	■	1-9
"	triode-2	2	11	24	5	■		6-7	■	
408A		2	11	25	3	■		1-5-6	■	4
	(408A—Must show short on 2-7)									
	(408A—Cathode Short Test. Throw 2-7 together)									

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
412A	plate-1	1	7	5	4		9	5
"	plate-2	1	7	5	4		1	
417A		2	7	23	3	5-7-8	1-4	9
(417A—Must show short on 4-5-7-8)								
(417A—Grid Short Test—Throw 4-5-7-8 together)								
CK-501-AX		2	2	32	3		1-2-4	5
502A		1	7	4	2		3-5-6	7
CK-502-AX		2	2	32	1		2-4-5	3
CK-503-AX		2	2	33	1		2-4-5	3
CK-505-AX		3	1	47	3		1-2-4	5
(CK-505-AX—Read on special scale)								
CK-506-AX		2	2	32	3		1-2-4	5
CK-507-AX		2	2	32	3		1-2-4	5
CK-511-X		2	2	31	3		1-2-4-5	6
CK-512-AX		†3	1	47	3		1-2-4	5
CK-521-AX		2	2	31	3		1-2-4	5
CK-522-AX		2	2	32	3		1-2-4	5
CK-527-AX		3	2	31	3		1-2-4	5
(CK-527-AX—Read on Special Scale)								
CK-532-DX		3	2	28	3		1-2-4	5
(CK-532-DX—Read on "Diodes" Arc)								
CK-536-AX		3	2	29	3		1-2-4	5
(CK-536-AX—Read on "Diodes" Arc)								
CK-542-DX		3	2	50	3		1-2-4	5
CK-551-AXA	pent.	3	2	48	4		1-2-5	6
"	†diode	3	2	40	4		3	
CK-553-AXA		2	2	29	3		1-2-4	5
CK-556-AX		2	2	28	2		1-3	4
CK-568-AX		2	2	30	2		1-3	4
CK-569-AX		2	2	28	3		1-2-4	5
CK-573-AX		2	2	28	2		1-3	4
CK-605-CX		2	7	22	3		1-2-5-7	4
CK-606-BX		3	7	26	2		1	3
CK-608-CX		1	7	5	3		1-5	4
CK-619-CX		2	7	25	2		1-4	3
713A		2	7	24	2		4-6-8	7
(713A—Must show short on 3-5)								
(713A—Cathode short test—Throw 3-5 together)								
717A		2	7	24	2		4-6-8	7
(717A—Must show short on 3-5)								
(717A—Cathode Short Test—Throw 3-5 together)								
801		1	8	20	1		2-3	4
802		1	7	11	1		3-4-5-9	7
807		1	7	7	1		2-3-9	5
809		1	7	10	1		3-9	4
811A		1	7	12	4		3-9	1
812		5	7	4	1		3-9	4
815	sect-1	5	7	4	5		4-7-9	1-8
"	sect-2	5	7	4	5		2-4-10	
(815—Connect Red Grip Cap to right hand side of tube)								
(815—Fil. Cont. Also Throw 1-8 together)								

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
837		1	10	7	1		3-4-5-9	7
841		1	8	17	1		2-3	4
842		1	8	23	1		2-3	4
843		1	4	16	1		2-3	5
864		2	2	37	1		2-3	4
866A		2	4	30	1		9	4
866JR		5	4	4	1		2	4
884		1	7	8	2		3-5	7
885		1	4	7	1		2-3	5
932		1	3	16	1		2-3-9	4
950		1	3	31	1		2-3-4	5
954		1	7	10	1		2-3-6-9	4
955		1	7	8	1		2-3	4
956		1	7	8	1		2-3-6-9	4
957		1	2	23	1	5	2-3	4-5
	(957—Fil. Cont. Also Throw 4-5 together)							
958		1	2	13	1	5	2-3	4-5
	(958—Fil. Cont. Also Throw 4-5 together)							
959		1	2	18	1	5	2-3-6-9	4-5
	(959—Fil. Cont. Also Throw 4-5 together)							
FM-1000	total	1	7	3	1		2-4-5-6-7	8
"	triode	1	7	4	1		2-5	
1005	plate-1	5	7	5	6		3	8
"	plate-2	5	7	5	6		5	
CK-1013		5	1	12	-		9	
	(CK-1013—Must show short on 1-2-6-7)							
	(CK-1013—May show short on 3-5)							
	(CK-1013—Cathode Short Test. Throw 1-2-6-7 together)							
1201		1	7	5	2	1-3	5-7	8
	(1201—Plate Short Test. Throw 3-7 together)							
	(1201—Grid Short Test. Throw 1-5 together)							
	(1201—Cathode Short Test. Throw 4-6 together)							
	(1201—Must show short on 1-3-4-5-6-7 individually)							
1203		3	7	29	1		4	8
1206	sect-1	1	7	7	1		3-5-7	8
"	sect-2	1	7	6	1		2-3-4	
1221		1	7	10	1		2-3-4-9	6
1222A		1	7	7	1		2-3-4	6
1223		1	7	10	2		3-4-5-9	7
1229		1	3	21	1		2-3-9	4
1231		1	7	4	1		2-3-4-6	8
1232		1	7	4	1		2-3-4-6	8
HY-1269		1	7	10	4		2-3-9	1-5
	(HY-1269—Fil. Cont. Also Throw 1-5 together)							
1273		1	7	8	1		2-3-4-6	8
1276		1	6	8	1		2-3	4
1280		1	10	8	1		2-3-4-6	8
1282		1	7	4	1		2-3-5-6	8
	(1282—Must show short on 4-7)							
	(1282—Cathode Short Test—Throw 4-7 together)							
1291	triode-1	2	2	29	4		2-3	1-8
"	triode-2	2	2	29	4		6-7	
	(1291—Fil. Cont. Also Throw 1-8 together)							

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
1299		2	2	28	7		2-3-6	1-8
	(1299—Fil. Cont. Also Throw 1-8 together)							
1602		1	8	18	1		2-3	4
1603		1	7	10	1		2-3-4-9	6
1609		1	2	19	1		2-3-4	5
1610		1	4	12	1		2-3-4	5
1611		1	7	11	2		3-4-5	7
1612		1	7	8	2		3-4-5-9	7
1613		1	7	11	2		3-4-5	7
1614		1	7	7	2		3-4-5	7
1619		1	4	9	2		3-4-5-8	7
1620		1	7	11	2		3-4-5-9	7
1621		1	7	11	2		3-4-5	7
1622		1	7	7	2		3-4-5	7
1624		1	4	9	1		2-3-9	5
1625		1	10	7	1		3-4-9	7
1626		1	10	13	2		3-5	7
1629	triode	1	10	19	2		3-5	7
"	eye	4	10	0	2		3-4	
	(1629—See Instructions for Eye Test)							
1631		1	10	7	2		3-4-5	7
1632		1	10	5	2		3-4-5	7
1633	triode-1	1	12	8	7		4-5	8
"	triode-2	1	12	8	7		1-2	
1634	triode-1	1	10	13	7		2-3	8
"	triode-2	1	10	13	7		4-5	
1635	triode-1	1	7	11	2		5-6	7
"	triode-2	1	7	11	2		3-4	
1639	triode	1	7	8	2		3-9	7
"	†diode-1	3	7	31	2		5	
"	†diode-2	3	7	31	2		4	
1644	pent.-1	1	10	10	6		3-4-5	7
"	pent.-2	1	10	10	6		1-5-8	
1650		1	7	8	1		2-3	4
1655	triode-1	1	7	12	7		4-5	8
"	triode-2	1	7	12	7		2-3	
1657		1	7	3	2		3-5	7
	(1657—Must show short on 1-4)							
1659	triode	1	4	10	1		2-9	6
"	†diode-1	3	4	35	1		3	
"	†diode-2	3	4	35	1		4	
1662		1	2	30	5	6	2-3-4	1-7
	(1662—Must show short on 2-6)							
	(1662—Plate Short Test. Throw 2-6 together)							
	(1662—Fil. Cont. Also Throw 1-7 together)							
1665		1	7	3	2		3-5-6	7
1851		1	7	3	2		3-4-5-9	7
1852		1	7	3	2		3-4-6-8	7
1853		1	7	5	2		3-4-6-8	7
2050		1	7	3	2		3-5-6	7
2051		1	7	4	2		3-5-6	7
5516		1	4	8	2-7		3-5-9	1-4-6
	(5516—Fil. Cont. Also Throw 1-4-6 together)							
CK-5517		5	1	12	-		9	
	(CK-5517—Must show short on 1-2-6-7)							
	(CK-5517—May show short on 3-5)							
	(CK-5517—Cathode Short Test—Throw 1-2-6-7 together)							

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
5590		2	7	27	3	■		1-5-6	■	4
	(5590—Must show short on 2-7)									
	(5590—Cathode Short Test—Throw 2-7 together)									
5603		1	7	7	2	■		3-4-6-8	■	7
CK-5608	triode-1	1	4	9	7	■		5-6	■	1
"	triode-2	1	4	9	7	■		2-3	■	
	(5608—May show short on 4)									
5610		2	7	25	3	■	1	5-6	■	4
	(5610—Must show short on 1-5)									
	(5610—Plate Short Test—Throw 1-5 together)									
5618		1	4	6	5	■		2-3-6	■	1-7
	(5618—Fil. Cont. Also Throw 1-7 together)									
5636		2	7	25	3	■		1-4-5-7	■	6
	(5636—Must show short on 2-8)									
	(5636—Cathode Short Test—Throw 2-8 Together)									
5642		4	2	18	2	■		9	■	1
	(5642—The 2 bottom leads of tube connect to pins 1 and 2 of octal socket. Top lead connects to black grid cap)									
5654		2	7	25	3	■		1-5-6	■	4
	(5654—Must show short on 2-7)									
	(5654—Cathode Short Test—Throw 2-7 together)									
5663		1	7	4	3	■		1-5-7	■	4
5670	triode-1	2	7	24	1	■		6-7	■	9
"	triode-2	2	7	24	1	■		3-4	■	
5672		2	2	32	3	■		1-2-4	■	5
5676		2	2	27	2	■		1-3	■	4
5678		2	2	28	3	■		1-2-4	■	5
5679	†diode-1	3	5	28	4	■		6	■	1-8
"	†diode-2	3	5	28	4	■		3	■	
	(5679—Fil. Cont. Also Throw 1-8 together)									
5686		1	7	8	4	■	6	2-7-9	■	5
	(5686—Cathode Short Test—Throw 1-3-8 together)									
	(5686—Screen Short Test—Throw 6-9 together)									
	(5686—Must show short on 1-3-6-8-9)									
5687	triode-1	2	7	23	8	■		7-9	■	4-5
"	triode-2	2	7	23	8	■		1-2	■	
	(5687—Fil. Cont. Also Throw 4-5 together)									
5691	triode-1	1	7	11	7	■		1-2	■	8
"	triode-2	1	7	11	7	■		4-5	■	
5692	triode-1	1	7	9	7	■		1-2	■	8
"	triode-2	1	7	9	7	■		4-5	■	
5693		1	7	8	2	■		3-4-6-8	■	7
CK 5694	triode-1	1	7	9	2	■		3-4	■	7
"	triode-2	1	7	9	2	■		5-6	■	
5695		5	4	4	1	■		2	■	4
5696		2	7	29	3	■		1-6	■	4
	(5696—Screen Short Test—Throw 5-7 together)									
	(5696—Must show short on 5-7)									

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
5702		2	7	22	3	■		1-2-5-7	■	4
5703		1	7	5	3	■		1-5	■	4
5718		1	7	6	3	■		1-8	■	6
5719		2	7	25	3	■		1-8	■	6
5725		1	7	4	3	■		1-5-6-7	■	4
5726	†diode-1	3	7	30	3	■		2	■	4
"	†diode-2	3	7	30	3	■		7	■	
5727		1	7	3	3	■	5	1-6-7	■	4
	(5727—Must show short on 5-7)									
	(5727—Screen Short Test—Throw 5-7 together)									
5744		2	7	26	2	■		1-4	■	3
5749		1	7	5	3	■		1-2-5-6	■	4
5750	total	2	7	24	3	■		1-5-6-7	■	4
"	triode	2	7	25	3	■		1-6	■	
5751	triode-1	2	7	27	9	■		6-7	■	4-5
"	triode-2	2	7	27	9	■		1-2	■	
	(5751—Fil. Cont. Also Throw 4-5 together)									
5755	triode-1	3	7	33	9	■		6-8	■	4-5
"	triode-2	3	7	33	9	■		1-3	■	
	(5755—Read on diodes special scale)									
5763		1	7	4	4	■	8	1-3-6-9	■	5
	(5763—Must show short on 8-9)									
	(5763—Grid Short Test—Throw 8-9 together)									
5784		2	7	24	3	■		1-2-5-7	■	4
5812		1	5	6	7	■		1-5-6	■	3-4
	(5812—Fil. Cont. Also Throw 3-4 together)									
5814	triode-1	1	7	8	9	■		1-2	■	4-5
"	triode-2	1	7	8	9	■		6-7	■	
	(5814—Fil. Cont. Also Throw 4-5 together)									
5823		5	22	11		■		1	■	
	(5823—Must show short on 3-7)									
5824		1	12	5	2	■		3-4-5	■	7
CK-5829	†diode-1	3	7	25	3	■		6	■	5
"	†diode-2	3	7	25	3	■		1	■	
5840		2	7	24	3	■		1-5-7	■	6
	(5840—Must show short on 2-4-8)									
	(5840—Cathode Short Test—Throw 2-4-8 together)									
5842		2	7	23	3	■	5-7-8	1-4	■	9
	(5842—Must show short on 4-5-7-8)									
	(5842—Grid Short Test—Throw 4-5-7-8 together)									
5847		2	7	23	3	■		1-6-8	■	9
CK-5854		3	2	31	3	■		1-2-4	■	5
	(CK-5854—Read on Special Scale)									
5879		2	7	23	4	■		1-7-8-9	■	5
5881		1	7	5	2	■		3-4-5	■	7
5899		2	7	25	3	■		1-5-7	■	6
	(5899—Must show short on 2-4-8)									
	(5899—Cathode Short Test—Throw 2-4-8 together)									

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
5902A		2	7	25	3		1-5-7	6
	(5902A—Must show short on 2-4-8)							
	(5902A—Cathode Short Test—Throw 2-4-8 together)							
5915	total	1	7	5	3		1-5-6-7	4
"	triode	1	7	5	3		1-6	
5931	plate-1	1	6	12	2		4	8
"	plate-2	1	6	12	2		6	
5932		1	7	7	2		3-4-5	7
5933		1	7	7	1		2-3-9	5
5963	triode-1	1	7	8	9		1-2	4-5
"	triode-2	1	7	8	9		6-7	
	(5963—Fil. Cont. Also Throw 4-5 together)							
5964	triode-1	2	7	23	3		2-5	4
"	triode-2	2	7	23	3		1-6	
5965	triode-1	2	7	22	9		6-7	4-5
"	triode-2	2	7	22	9		1-2	
	(5965—Fil. Cont. Also Throw 4-5 together)							
6005		1	7	7	3	1	5-6-7	4
	(6005—Must show short on 1-7)							
	(6005—Grid Short Test—Throw 1-7 together)							
6021	triode-1	2	7	24	3		7-8	6
"	triode-2	2	7	24	3		1-2	
6028		2	11	25	3		1-5-6	4
	(6028—Must show short on 2-7)							
	(6028—Cathode Short Test—Throw 2-7 together)							
6029		2	2	28	2		1-3	4
6046		1	12	5	2		3-4-5	7
6072	triode-1	2	7	28	9		6-7	4-5
"	triode-2	2	7	28	9		1-2	
	(6072—Fil. Cont. Also Throw 4-5 together)							
6080	triode-1	2	7	22	7		4-5	8
"	triode-2	2	7	22	7		1-2	
6087	plate-1	1	6	18	2		4	8
"	plate-2	1	6	18	2		6	
6088		2	2	32	3		1-2-4	5
6096		2	7	25	3		1-5-6	4
	(6096—Must show short on 2-7)							
	(6096—Cathode Short Test—Throw 2-7 together)							
6097	†diode-1	3	7	30	3		2	4
"	†diode-2	3	7	30	3		7	
6098		2	7	25	6		3-5-7	8
6111	triode-1	2	7	26	3		7-8	6
"	triode-2	2	7	26	3		1-2	
6112	triode-1	2	7	26	3		7-8	6
"	triode-2	2	7	26	3		1-2	
6135		1	7	8	3	1	5-6	4
	(6135—Must show short on 1-5)							
	(6135—Plate Short Test—Throw 1-5 together)							
6136		1	7	5	3		1-2-5-6	4
6137		1	7	9	2		3-4-6-8	7
6146		2	7	24	2		3-5-9	7
	(6146—Must show short on 1-4-6)							
	(6146—Cathode Short Test—Throw 1-4-6 together)							

Tube	Sect.	A	B	C	D	E	F	Fil. Cgnt.
6159		1	12	5	2	■	3-5-9	■ 7
	(6159—Must show short on 1-4-6)							
	(6159—Cathode Short Test—Throw 1-4-6 together)							
6187		1	7	4	3	■	1-5-6-7	■ 4
6188	triode-1	1	7	10	7	■	1-2	■ 8
"	triode-2	1	7	10	7	■	4-5	■
6189	triode-1	1	7	8	9	■	1-2	■ 4-5
"	triode-2	1	7	8	9	■	6-7	■
	(6189—Fil. Cont. Also Throw 4-5 together)							
6197		2	7	22	4	■	2-3 6-7-8-9	■ 5
	(6197—Must show short on 2-3-8-9)							
	(6197—Grid short test—Throw 2-9 together)							
	(6197—Screen short test—Throw 3-8 together)							
6201	triode-1	1	7	4	9	■	1-2	■ 4-5
"	triode-2	1	7	4	9	■	6-7	■
	(6201—Fil. Cont. Also Throw 4-5 together)							
6202	plate-1	1	7	14	3	■	6	■ 4
"	plate-2	1	7	14	3	■	1	■
6203	†diode-1	3	7	30	4	■	9	■ 5
"	†diode-2	3	7	30	4	■	1	■
6205		2	7	24	3	■	1-4-5-7	■ 6
	(6205—Must show short on 2-8)							
	(6205—Cathode Short Test—Throw 2-8 together)							
6206		2	7	24	3	■	1-4-5-7	■ 6
	(6206—Must show short on 2-8)							
	(6206—Cathode Short Test—Throw 2-8 together)							
6211	triode-1	2	7	23	9	■	6-7	■ 4-5
"	triode-2	2	7	23	9	■	1-2	■
	(6211—Fil. Cont. Also Throw 4-5 together)							
6216		2	7	23	4	■	1 2-6-7	■ 5
	(6216—Must show short on 1-3-6-8)							
	(6216—Plate Short Test—Throw 1-6 together)							
	(6216—Cathode Short Test—Throw 3-8 together)							
6265		1	7	4	3	■	1-5-6	■ 4
6267		2	7	26	4	■	1-6-9	■ 5
	(6267—Must show short on 2-7)							
6336A	triode-1	2	7	22	7	■	4-5	■ 8
"	triode-2	2	7	22	7	■	1-2	■
6350	triode-1	2	7	25	9	■	6-8	■ 4-5
"	triode-2	2	7	25	9	■	1-3	■
	6350—Fil. Cont.—Also throw 4-5 together)							
6360	tet.-1	1	7	6	9	■	3-7-8	■ 4-5
"	tet.-2	1	7	6	9	■	1-6-7	■
	(6360—Fil. Cont.—Also throw 4-5 together)							
6386	triode-1	2	7	25	1	■	6-7	■ 9
"	triode-2	2	7	25	1	■	3-4	■
	(6386—May show short on 5)							

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
6394	triode-1	2	12	24	7	■		4-5	■	8
"	triode-2	2	12	24	7	■		1-2	■	
CK-6397		1	2	8	5	■		3-6-8	■	1-7
	(CK-6397—Fil. Cont. Also Throw 1-7 together)									
6417		1	10	4	4	■	8	1-3-6-9	■	5
	(6417—Must show short on 8-9)									
	(6417—Grid Short Test—Throw 8-9 together)									
6463	triode-1	2	7	24	9	■		6-8	■	4-5
"	triode-2	2	7	24	9	■		1-3	■	
	(6463—Fil. Cont. Also Throw 4-5 together)									
6485		1	7	3	3	■		1-2-5-6	■	4
6550		2	7	24	2	■		3-4-5	■	7
6660		1	7	5	3	■		1-2-5-6	■	4
6661		1	7	4	3	■		1-5-6	■	4
6662		1	7	5	3	■		1-5-6-7	■	4
6663	†diode-1	3	7	30	3	■		2	■	4
"	†diode-2	3	7	30	3	■		7	■	
6669		1	7	7	3	■	1	5-6-7	■	4
	(6669—Must show short on 1-7)									
	(6669—Grid Short Test—Throw 1-7 Together)									
6677		2	7	22	4	■	2-3	6-7-8-9	■	5
	(6677—Must show short on 2-3-8-9)									
	(6677—Grid Short Test—Throw 2-9 Together)									
	(6677—Screen Short Test—Throw 3-8 Together)									
6678	triode	2	7	24	4	■		1-9	■	5
"	pent.	2	7	24	4	■		2-3-6	■	
6679	triode-1	1	7	4	9	■		1-2	■	4-5
"	triode-2	1	7	4	9	■		6-7	■	
	(6679—Fil. Cont. Also Throw 4-5 Together)									
6680	triode-1	1	7	8	9	■		1-2	■	4-5
"	triode-2	1	7	8	9	■		6-7	■	
	(6680—Fil. Cont. Also Throw 4-5 Together)									
6681	triode-1	1	7	8	9	■		6-7	■	4-5
"	triode-2	1	7	8	9	■		1-2	■	
	(6681—Fil. Cont. Also Throw 4-5 Together)									
6688		3	7	47	4	■		2-7-9	■	5
	(6688—Must show short on 1-3)									
	(6688—Cathode short test—Throw 1-3 together)									
6829	triode-1	2	7	22	9	■		6-7	■	4-5
"	triode-2	2	7	22	9	■		1-2	■	
	(6829—Fil. Cont. Also Throw 4-5 together)									
6883		2	10	24	2	■		3–5–9	■	7
	(6883—Must show short on 1–4–6)									
	(6883—Cathode short test—Throw 1–4–6 together)									
6919	†diode-1	3	7	26	3	■		7	■	4
"	†diode-2	3	7	26	3	■		2	■	
6922	triode-1	2	7	23	4	■		6-7	■	5
"	triode-2	2	7	23	4	■		1-2	■	

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
6973		1	7	8	4	■	1-3	6-8-9	■	5
	(6973—Must show short on 1-3-6-8)									
	(6973—Grid short test—Throw 3-6 together)									
	(6973—Screen short test—Throw 1-8 together)									
7025	triode-1	2	7	27	9	■		6-7	■	4-5
"	triode-2	2	7	27	9	■		1-2	■	
	(7025—Fil. Cont.—Also Throw 4-5 together)									
7027		1	7	6	2	■	1-5	3-4-6	■	7
	(7027—Must show short on 1-4-5-6)									
	(7027—Screen short test—throw 1-4 together)									
	(7027—Grid short test—throw 5-6 together)									
7036	triode	1	7	5	3	■		1-6	■	4
"	total	1	7	5	3	■		1-5-6-7	■	
7054		2	10	22	4	■		2-7-8	■	5
	(7054—Must show short on 3-9)									
7055	†diode-1	3	10	30	3	■		7	■	5
"	†diode-2	3	10	30	3	■		2	■	
7056		2	10	23	4	■		1-5-6-7	■	3
7057	triode-1	2	10	23	4	■		6-7	■	5
"	triode-2	2	10	23	4	■		1-2	■	
7058	triode-1	2	10	27	4	■		6-7	■	5
"	triode-2	2	10	27	4	■		1-2	■	
7059	triode	2	10	24	4	■		1-9	■	5
"	pent.	2	10	24	4	■		2-3-6	■	
7060	triode	2	10	24	4	■		1-2	■	5
"	pent.	2	10	24	4	■		6-7-8	■	
7061		1	10	8	4	■	1-3	6-8-9	■	5
	(7061—Must show short on 1-3-6-8)									
	(7061—Grid short test—Throw 3-6 together)									
	(7061—Screen short test—Throw 1-8 together)									
7167		2	10	23	3	■		1-5-6	■	4
	(7167—Must show short on 2-7)									
	(7167—Cathode short test—Throw 2-7 together)									
7189		2	7	23	4	■	1–6–8	2-7-9	■	5
	(7189—May show short on 1–2–6–8)									
	(7189—Grid short test—Throw 1–2 together)									
7199	triode	2	7	25	4	■		1-9	■	5
"	pent.	2	7	24	4	■		2-3-7	■	
7247	triode-1	1	7	8	9	■		6-7	■	4-5
"	triode-2	1	7	8	9	■		1-2	■	
7258	triode	2	10	27	4	■		1-2	■	5
"	pent.	2	10	26	4	■		6-7-8	■	
7355		1	7	5	2	■		3-6-8	■	7
7370	triode–1	2	11	24	8	■		7–9	■	4–5
"	triode–2	2	11	24	8	■		1–2	■	
	(7370—Fil. Cont. Also Throw 4–5 together)									
7408		1	7	8	2	■		3-4-5	■	7
7551		2	10	24	4	■	3	2-6-7-8	■	5
	(7551—Must show short on 1-3-8-9)									
	(7551—Cathode Short Test—Throw 1-9 together)									
	(7551—Screen Short Test—Throw 3-8 together)									

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
7558		2	7	24	4	■	3	2-6-7-8	■	5
	(7558—Must show short on 1-3-8-9)									
	(7558—Cathode Short Test—Throw 1-9 together)									
	(7558—Screen Short Test—Throw 3-8 together)									
7581		2	6	24	2	■		3-4-5	■	7
7586		2	7	21	4	■		1-2	■	5
	(7586—Use red grid cap)									
7587		3	7	45	4	■		1-2	■	5
7591		2	7	23	2	■	4	3-6-8	■	7
	(7591—Must show short on 4-8)									
	(7591—Screen Short Test—Throw 4-8 together)									
7687	triode	2	7	25	4	■		1-9	■	5
"	pent.	2	7	23	4	■		2-3-6	■	
7695		2	14	23	4	■		1-6-9	■	5
	(7695—Fil. Cont.—Set Control "B" at 12)									
7701		2	10	26	4	■	7	2-6-9	■	5
	(7701—Must show short on 1–3–7–8–9)									
	(7701—Cathode short test—Throw 1–3–8 together)									
	(7701—Screen short test—Throw 2–9 together)									
7716	triode	2	10	24	4	■		2-3	■	5
"	pent.	2	10	23	4	■		7-8-9	■	
7728	triode-1	1	7	4	9	■		6-7	■	4-5
"	triode-2	1	7	4	9	■		1-2	■	
	(7728—Fil. Cont.—Also Throw 4-5 together)									
7729	triode-1	2	7	27	9	■		6-7	■	4-5
"	triode-2	2	7	27	9	■		1-2	■	
	(7729—Fil. Cont.—Also Throw 4-5 together)									
7730	triode-1	1	7	8	9	■		6-7	■	4-5
"	triode-2	1	7	8	9	■		1-2	■	
	(7730—Fil. Cont.—Also Throw 4-5 together)									
7731	triode	2	7	24	4	■		1-9	■	5
"	pent.	2	7	24	4	■		2-3-6	■	
7733		2	7	22	6	■		2-7-8	■	4-5
	(7733—Must show short on 3-9)									
	(7733—Suppressor Short Test—Throw 3-9 together)									
	(7733—Fil. Cont.—Also Throw 4-5 together)									
7754		2	7	23	4	■		1–6–9	■	5
8016	(Same as 1B3)									
9001		1	7	9	3	■		1-5-6	■	4
	(9001—Must show short on 2-7)									
	(9001—Cathode Short Test—Throw 2-7 together)									
9002		1	7	11	3	■	1	5-6	■	4
	(9002—Plate Short Test—Throw 1-5 together)									
	(9002—Cathode Short Test—Throw 2-7 together)									
	(9002—Must show short on 1-2-5-7 individually)									
9003		1	7	8	3	■		1-5-6	■	4
	(9003—Must show short on 2-7)									
	(9003—Cathode Short Test—Throw 2-7 together)									

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
9004	†diode	3	7	30	1	■		2	■	4
9005	†diode	3	5	30	1	■		3	■	4
	(9005—Must show short on 5)									
9006	†diode	3	7	30	3	■	1	5	■	4
	(9006—Plate Short Test—Throw 1-5 together)									
	(9006—Cathode Short Test—Throw 2-7 together)									
	(9006—Must show short on 1-2-5-7 individually)									
PJ-8		1	6	20	1	■		2-3	■	4
X-155	triode-1	2	7	22	4	■		1-2	■	5
"	triode-2	2	7	22	4	■		6-7	■	
XXB	triode-1	2	2	33	7	■		5-6	■	1-8
"	triode-2	2	2	33	7	■		3-4	■	
	(XXB—Fil. Cont.—Also Throw 1-8 together)									
XXD	triode-1	1	10	10	1	■		5-6	■	8
"	triode-2	1	10	10	1	■		3-4	■	
XXFM	triode	1	7	10	1	■		2-3	■	8
"	†diode-1	3	7	30	1	■		5	■	
"	†diode-2	3	7	30	1	■		6	■	
XXL		1	7	7	1	■		2-6	■	8

* Denotes tubes with special European 8 pin miniature basing. The **PRECISION** No. G-118 adapter, designed especially for these tubes, is available from your **PRECISION** Distributor or directly from the factory service department at the net price of $3.95.

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
AZ-41	plate-1	1	5Z	19	7-8	5	6	5
"	plate-2	1	5Z	19	7-8	1	2	
	(AZ-41—Set switch "B" to 5 if there is no 5Z position)							
	(AZ-41—Must show short on 1-2-3-4-5-6)							
DA-90	†diode	3	2	38	1	5-2	6	7
	(DA-90—Must show short on 2-5-6)							
	(DA-90—Plate Short Test—Throw 2-6 together)							
DAC-32	†diode	3	2	35	2		5	7
"	triode	2	2	35	2		3-9	
DAF-91	pent.	2	2	34	1		4-5-6	7
"	†diode	3	2	45	1		3	
DAF-96	pent.	2	2	42	7		4-5-6	1
"	†diode	3	2	28	7		3	
DC-90		1	2	32	7	2-5	3-6	1
	(DC-90—Must show Short on 2-3-5-6)							
	(DC-90—Grid Short Test—Throw 5-6 together)							
	(DC-90—Plate Short Test—Throw 2-3 together)							
DC-96		2	2	30	1	2-5	3-6	7
	(DC-96—Must show short on 2-3-5-6)							
	(DC-96—Plate short test—Throw 2-3 together)							
	(DC-96—Grid short test—Throw 5-6 together)							
DCC-90	triode-1	2	2	28	4		2-3	1-7
"	triode-2	2	2	28	4		5-6	
	(DCC-90—Fil. Cont. Also Throw 1-7 together)							
DF-11		2	2	29	2		5-6-7	3
	(DF-11—Must show short on 8)							
DF-33		2	2	31	2		3-4-9	7
DF-91		2	2	31	7	5	2-3-6	1-5
	(DF-91—Fil. Cont. Also Throw 1-5 together)							
DF-92		2	2	32	7	5	2-3-6	1-5
	(DF-92—Fil. Cont. Also Throw 1-5 together)							
DF-96		3	2	32	7		2-3-6	1-5
	(DF-96—Read on Special Scale)							
	(DF-96—Fil. Cont. Also Throw 1-5 together)							
DF-97		1	2	17	7		2-3-4-6	1-5
	(DF-97—Fil. Cont. Also Throw 1-5 together)							
DF-904		2	2	31	7	5	2-3-6	1-5
	(DF-904—Fil. Cont. Also Throw 1-5 together)							
DK-32	total	2	2	33	2		3-4-5-6-9	7
"	triode	2	2	38	2		5-6	
DK-91	total	2	2	32	7	5	2-3-4-6	1-5
"	triode	2	2	32	7	5	3-4	
DK-92	amp.	1	2	14	7		2-3-4-5-6	1
"	osc.	1	2	15	7		3-4-5	
DK-96		3	2	46	7		2-3-4-5-6	1
DL-11		1	2	13	2		5-6-7	3
	(DL-11—Must show short on 8)							

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
DL-33		2	2	28	8	■		3-4-5	■	2-7
	(DL-33—Fil. Cont. Also Throw 2-7 together)									
DL-35		2	2	30	2	■		3-4-5	■	7
DL-41		2	2	27	1	■		2-5-6	■	7-8
	(DL-41—May show short on 3)									
DL-92		2	2	29	5	■	2	3-4-6	■	1-7
	(DL-92—Must show short on 2-6)									
	(DL-92—Fil. Cont. Also Throw 1-7 together)									
	(DL-92—Plate Short Test—Throw 2-6 together)									
DL-94		2	2	28	5	■		2-3-6	■	1-7
	(DL-94—Fil. Cont.—also throw 1-7 together)									
DL-96		2	2	28	5	■		2-3-6	■	1-7
DL-98		2	2	29	2-6	■		1-3-7	■	4-5
	(DL-98—Fil. Cont. Also Throw 4-5 together)									
DM-70	eye	3	2	0	4	■		1-8	■	5
	(DM-70—See instructions for Eye test)									
DM-71	eye	3	2	0	4	■		1-8	■	5
	(DM-71—See instructions for Eye test)									
DY-80	Caution:-Levers 5-8 must be thrown to position "E" before inserting tube and must remain in position "E" throughout all tests including short test.									
"		5	2	21	2	■	5-8	10	■	●
	●(DY-80—Fil. Cont.—1-4-6-9)									
	(DY-80—May show short on 3-7)									
	(DY-80—Use red grid cap)									
DY-86	Caution:—Levers 5-8 must be thrown to position "E" before inserting tube and must remain in position "E" throughout all tests, including short tests.									
"		5	2	19	2	■	5-8	10	■	●
	(DY-86—Use Red Grip cap)									
	●(DY-86—Fil. Cont.—1-4-6-9)									
	(DY-86—May show short on 3-7)									
DY-87	Caution:—Levers 5-8 must be thrown to position "E" before inserting tube and must remain in position "E" throughout all tests, including short tests.									
"		5	2	19	2	■	5-8	10	■	●
	(DY-87—Use Red Grip cap)									
	●(DY-87—Fil. Cont.—Must show short on 1-4-6-9)									
E-88-CC	triode-1	2	7	23	4	■		6-7	■	5
"	triode-2	2	7	23	4	■		1-2	■	
E-180-F		3	7	47	4	■		2-7-9	■	5
	(E-180-F—Must show short on 1-3)									
	(E-180-F—Cathode Short Test—Throw 1-3 together)									
EAA-11	†diode-1	3	7	29	2	■		5	■	3
"	†diode-2	3	7	29	2	■		6	■	
	(EAA-11—Make special adapter)									
EAA-91	†diode-1	3	7	30	3	■		2	■	4
"	†diode-2	3	7	30	3	■		7	■	
EAA-901	†diode-1	3	7	30	3	■		2	■	4
"	†diode-2	3	7	30	3	■		7	■	

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
EABC-80	triode	1	7	8	4		8-9	5
"	†diode-1	3	7	35	4		6	
"	†diode-2	3	7	28	4		2	
"	†diode-3	3	7	28	4		1	
EAC-91	triode	1	7	9	4		6-7	4
"	†diode	3	7	29	4		1	
*EAF-42	pent.	2	7	25	1		2-4-5-6	8
"	†diode	3	7	34	1		3	
EB-41	†diode-1	3	7	29	1		6	8
"	†diode-2	3	7	29	1		4	
EB-91	†diode-1	3	7	29	3		2	4
"	†diode-2	3	7	29	3		7	
EBC-11	triode	1	7	8	2		6-7	3
"	†diode-1	3	7	32	2		5	
"	†diode-2	3	7	32	2		4	
EBC-33	triode	1	7	8	2		3-9	7
"	†diode-1	3	7	31	2		5	
"	†diode-2	3	7	31	2		4	
EBC-41	triode	2	7	27	1		2-3	8
"	†diode-1	3	7	33	1		5	
"	†diode-2	3	7	33	1		6	
EBC-81	triode	1	7	8	4		1-2	5
"	†diode-1	3	7	40	4		8	
"	†diode-2	3	7	37	4		6	
(EBC-81—May show short on 7-9)								
EBC-90	triode	1	7	8	3		1-7	4
"	†diode-1	3	7	35	3		5	
"	†diode-2	3	7	35	3		6	
EBC-91	triode	2	7	27	3		1-7	4
"	†diode-1	3	7	35	3		5	
"	†diode-2	3	7	35	3		6	
EBF-15	pent.	2	7	23	2		1-6-7	3
"	†diode-1	3	7	31	2		5	
"	†diode-2	3	7	31	2		4	
EBF-80	pent.	2	7	25	4		1-2-6-9	5
"	†diode-1	3	7	34	4		7	
"	†diode-2	3	7	32	4		8	
EBF-83	pent.	2	7	24	4		1-2-6	5
"	†diode-1	3	7	40	4		7	
"	†diode-2	3	7	40	4		8	
EBF-89	pent.	2	7	24	4		1-2-6	5
"	†diode-1	3	7	34	4		7	
"	†diode-2	3	7	34	4		8	
EC-92		2	7	23	3		1-6	4
EC-97		2	7	22	3		2-5	4
(EC-97—Must show short on 1-7)								
(EC-97—Cathode Short Test—Throw 1-7 together)								
ECC-33	triode-1	1	7	6	7		4-5	8
"	triode-2	1	7	6	7		1-2	
ECC-34	triode-1	1	7	8	7		4-5	8
"	triode-2	1	7	8	7		1-2	
ECC-35	triode-1	1	7	7	7		4-5	8
"	triode-2	1	7	7	7		1-2	
ECC-40	triode-1	2	7	25	1		5-6	8
"	triode-2	2	7	25	1		2-3	
ECC-81	triode-1	1	7	4	9		1-2	4-5
"	triode-2	1	7	4	9		6-7	
(ECC-81—Fil. Cont. Also Throw 4-5 together)								

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
ECC-82	triode-1	1	7	8	9		1-2	4-5
"	triode-2	1	7	8	9		6-7	
	(ECC-82—Fil. Cont. Also Throw 4-5 together)							
ECC-83	triode-1	1	7	8	9		6-7	4-5
"	triode-2	1	7	8	9		1-2	
	(ECC-83—Fil. Cont. Also Throw 4-5 together)							
ECC-84	triode-1	2	7	23	4		6-9	5
"	triode-2	2	7	23	4		2-3	
	(ECC-84—Must show short on 7-8)							
	(ECC-84—Cathode Short Test—triode 1 section—Throw 7-8 together)							
ECC-85	triode-1	2	7	22	4		6-7	5
"	triode-2	2	7	22	4		1-2	
ECC-86	triode-1	2	7	23	4		6-7	5
"	triode-2	2	7	23	4		1-2	
ECC-88	triode-1	2	7	23	4		6-7	5
"	triode-2	2	7	23	4		1-2	
ECC-91	triode-1	2	7	24	3		2-5	4
"	triode-2	2	7	24	3		1-6	
ECC-189	triode-1	2	7	21	4		6-7	5
"	triode-2	2	7	21	4		1-2	
ECF-12	triode	2	7	28	2		4-5	3
"	pent.	2	7	26	2		1-6-7	
ECF-80	triode	2	6	24	4		1-9	5
"	pent.	2	6	23	4		2-3-6	
ECF-82	triode	2	7	24	4		1-9	5
"	pent.	2	7	24	4		2-3-6	
ECF-86	triode	2	7	23	4		6-7	5
"	pent.	2	7	22	4		2-8-9	
	(ECF-86—May show short on 1-3)							
	(ECF-86—Cathode Short Test—Throw 1-3 together)							
ECH-35	triode	2	7	26	2		5-6	7
"	hex.	2	7	23	2		3-4-5-9	
ECH-42	triode	2	7	26	1		3-4	8
"	osc.	2	7	27	1		2-4	
"	hex.	2	7	26	1		2-5-6	
ECH-81	heptode	2	7	23	4		1-2-6-7	5
"	triode	2	7	25	4		8-9	
ECH-83	hept.	2	7	22	4		1-2-6-7	5
"	triode	2	7	24	4		8-9	
ECL-11	triode	2	7	28	2		6-7	3
"	tetrode	1	7	12	2		1-4-5	
ECL-80	pent.	1	7	6	4		6-7-8-9	5
"	triode	1	7	10	4		1-2	
ECL-82	triode	2	7	26	4		1-9	5
"	pent.	2	7	26	4		3-6-7	
ECL-84	triode	2	7	23	4		1-2	5
"	pent.	2	7	23	4		6-8-9	
ECL-86	triode	2	7	26	4		1-9	5
"	pent.	2	7	23	4		3-6-8	
EF-12		1	7	7	2		5-6-7	3
EF-14		2	7	23	2		1-4-5-6	3
EF-15		2	7	22	2		4-5-6-7	3
EF-39		1	7	6	2		3-4-5-9	7
EF-40		2	7	25	1		2-4-5-6	8
	(EF-40—May show short on 3-7)							
	(EF-40—Cathode Short Test—Throw 3-7 together)							

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
*EF-41		2	7	25	1	■		2-5-6	■	8
	(EF-41—May show short on 3-7)									
EF-42		2	7	22	1	■		2-4-5-6	■	8
EF-80		2	7	22	4	■	3	2-7-8	■	5
	(EF-80—Must show short on 1-3)									
	(EF-80—Cathode Short Test—Throw 1-3 together)									
EF-83		2	7	26	4	■		1-6-8-9	■	5
	(EF-83—May show short on 2-7)									
EF-85		2	7	23	4	■	3	2-7-8	■	5
	(EF-85—Must show short on 1-3)									
	(EF-85—Cathode Short Test—Throw 1-3 together)									
EF-86		2	7	26	4	■		1-6-9	■	5
	(EF-86—Must show short on 2-7)									
EF-89		2	7	24	4	■		2-7-8-9	■	5
	(EF-89—May show short on 1-6)									
EF-91		2	7	23	3	■		1-5-6-7	■	4
EF-92		1	7	7	3	■		1-5-6-7	■	4
EF-93		1	7	5	3	■		1-2-5-6	■	4
EF-94		1	7	5	3	■		1-2-5-6	■	4
EF-97		2	7	23	3	■		1-5-6	■	4
EF-98		2	7	23	3	■		1-5-6	■	4
EF-183		2	7	21	4	■		2-7-8-9	■	5
	(EF-183—Must show short on 1-3)									
	(EF-183—Cathode Short Test—Throw 1-3 together)									
EF-184		2	7	21	4	■		2-7-8-9	■	5
	(EF-184—Must show short on 1-3)									
	(EF-184—Cathode Short Test—Throw 1-3 together)									
EF-804		2	7	26	4	■		1-7-8-9	■	5
	(EF-804—May show short on 2-6)									
EH-90	triode	2	7	24	3	■		1-6	■	4
"	total	2	7	24	3	■		1-5-6-7	■	
EK-90	total	2	7	24	3	■		1-5-6-7	■	4
"	triode	2	7	25	3	■		1-6	■	
EL-11		2	7	23	2	■		5-6-7	■	3
EL-12		2	7	23	2	■		5-6-7	■	3
EL-32		1	7	7	2	■		3-4-9	■	7
EL-33		2	7	24	2	■		3-4-5	■	7
EL-34		1	7	4	7	■		1-3-4-5	■	2
EL-37		2	7	26	7	■		3-4-5	■	2
EL-38		1	6	4	2	■		4-5-9	■	7
*EL-41		2	7	24	1	■		2-5-6	■	8
	(EL-41—Must show short on 3-7)									
	(EL-41—Cathode Short Test—Throw 3-7 together)									
EL-84		1	7	5	4	■	1	2-7-9	■	5
	(EL-84—Must show short on 1-2)									
	(EL-84—Grid Short Test—Throw 1-2 together)									

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
EL-85		1	7	7	4	■	1-6	2-7-8-9	■	5
	(EL-85—Must show short on 1-2-6-8)									
	(EL-85—Grid Short Test—Throw 1-2 together)									
	(EL-85—Suppressor Short Test—Throw 6-8 together)									
EL-86		2	6	22	4	■	1-6-8	2-7-9	■	5
	(EL-86—May show short on 1-2-6-7-8-9)									
	(EL-86—Grid Short Test—Throw 1-2 together)									
	(EL-86—Plate Short Test—Throw 7-8 together)									
	(EL-86—Screen Short Test—Throw 6-9 together)									
EL-90		1	7	7	3	■	1	5-6-7	■	4
	(EL-90—Must show short on 1-7)									
	(EL-90—Grid Short Test—Throw 1-7 together)									
EL-91		2	7	25	3	■		1-5-7	■	4
EL-95		2	6	24	3	■	7	1-5-6	■	4
	(EL-95—May show short on 1-7)									
	(EL-95—Grid Short Test—Throw 1-7 together)									
EM-11	triode	1	7	7	2	■		5–7	■	3
"	eye	4	7	0	2	■		5–6–1	■	
	(EM-11—See instructions for Eye Test)									
EM-34		4	7	0	2	■		3-6-5	■	7
	(EM-34—See Instructions for Eye Test)									
EM-35	triode	1	7	8	2	■		3-4	■	7
"	eye	4	7	0	2	■		3-6-5	■	
	(EM-35—See Instructions for Eye Test)									
EM-80	triode	1	7	15	4	■		1-7	■	5
"	eye	4	7	0	4	■	3-6	7-9	■	
	(EM-80—See Instructions for Eye Test)									
EM-81	triode	2	7	32	4	■		1-7	■	5
"	eye	4	7	0	4	■	3-8	7-9	■	
	(EM-81—Must show short on 3-8-9)									
	(EM-81—See instructions for Eye test)									
EM-84	triode	3	7	31	4	■		1-9	■	5
"	eye	4	7	0	4	■	2-8	7-6	■	
	(EM-84—Must show short on 2-6-8)									
	(EM-84—See instructions for Eye test)									
EY-51*		4	7	25	2	■		9	■	1
	*(EY-51—Connect 2 bottom leads to pins 1 and 2 of octal socket. Top lead connect to grid cap.									
EY-86	Caution:—Levers 5-8 must be thrown to position "E" before inserting tube and must remain in position "E" throughout all test, including short tests.									
"		5	7	19	2	■	5-8	10	■	●
	●(EY-86—Fil. Cont.—1-4-6-9)									
	(EY-86—Use Red Grid cap)									

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
EY-88		2	7	23	4	■	3-8	9	■	5
	(EY-88—May show short on 1, 2, 3, 6, 7, 8, 9)									
	(EY-88—Use red grid cap)									
EZ-11	plate-1	1	7	10	2	■		6	■	3
"	plate-2	1	7	10	2	■		5	■	
EZ-35	plate-1	1	7	10	2	■		3	■	7
"	plate-2	1	7	10	2	■		5	■	
EZ-80	plate-1	1	7	11	4	■		1	■	5
"	plate-2	1	7	11	4	■		7	■	
EZ-81	plate-1	1	7	6	4	■		1	■	5
"	plate-2	1	7	6	4	■		7	■	
EZ-90	plate-1	1	7	11	3	■		1	■	4
"	plate-2	1	7	11	3	■		6	■	
GZ-30	plate-1	1	6	6	2	■		6	■	8
"	plate-2	1	6	6	2	■		4	■	
GZ-34	plate-1	1	6	5	2	■		4	■	8
"	plate-2	1	6	5	2	■		6	■	
HBC-90	triode	1	10	8	3	■		1-7	■	4
"	†diode-1	3	10	30	3	■		5	■	
"	†diode-2	3	10	30	3	■		6	■	
HF-93		1	10	4	3	■		1-2-5-6	■	4
HK-90	triode	1	10	4	3	■		1-6	■	4
"	total	1	10	4	3	■		1-5-6-7	■	
HL-92		1	14	3	3	■	2	5-6-7	■	4
	(HL-92—Must show short on 2-5)									
	(HL-92—Grid Short Test—Throw 2-5 together)									
	(HL-92—Fil. Cont.—Set control "B" at 12)									
HY-90		1	13	4	3	■	6	5	■	4-6
	(HY-90—Fil. Cont. Also Throw 4-6 together)									
KT-66		1	7	5	2	■		3-4-5	■	7
KT-88		2	7	22	2	■		3-4-5	■	7
PABC-80	triode	1	9	7	4	■		8-9	■	5
"	†diode-1	3	9	35	4	■		6	■	
"	†diode-2	3	9	28	4	■		2	■	
"	†diode-3	3	9	28	4	■		1	■	
PC-86		2	5	22	4	■	1-2-6	8-9	■	5
	(PC-86—Must show short on 1-2-3-6-7-8-9)									
	(PC-86—Plate Short Test—Throw 1-9 together)									
	(PC-86—Grid Short Test—Throw 2-6-8 together)									
	(PC-86—Cathode Short Test—Throw 3-7 together)									
PCC-84	triode-1	2	8	23	4	■		6-9	■	5
"	triode-2	2	8	23	4	■		2-3	■	
	(PCC-84—Must show short on 7-8)									
	(PCC-84—Cathode Short Test—triode 1 section—Throw 7-8 together)									
PCC-85	triode-1	2	8	22	4	■		6-7	■	5
"	triode-2	2	8	22	4	■		1-2	■	
PCC-88	triode-1	2	7	23	4	■		6-7	■	5
"	triode-2	2	7	23	4	■		1-2	■	
PCF-80	triode	2	8	24	4	■		1-9	■	5
"	pent.	1	8	3	4	■		2-3-6	■	
PCF-82	triode	2	9	24	4	■		1-9	■	5
"	pent.	2	9	24	4	■		2-3-6	■	

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
PCL-81	triode	2	10	26	4	■		1-7	■	5
"	pent.	2	10	23	4	■		2-6-9	■	
	(PCL-81—Must show short on 3-8)									
	(PCL-81—Cathode Short Test—Throw 3-8 together)									
PCL-84	triode	2	10	23	4	■		1-2	■	5
"	pent.	2	10	23	4	■		6-8-9	■	
PL-36		1	12	3	2	■	1-3	1-4-5-9	■	7
	(PL-36—Must show short on 1-3-4-8)									
	(PL-36—Cathode Short Test—Throw 3-8 together)									
	(PL-36—Screen Short Test—Throw 1-4 together)									
PY-80		1	10	6	4	■		9	■	5
PY-81		1	10	5	9	■	2	9	■	5
	(PY-81—Must show short on 2-9)									
	(PY-81—Plate Short Test—Throw 2-9 together)									
	(PY-81—Use Red Grid cap)									
PY-82		1	10	4	4	■		9	■	5
PY-83		5	11	4	4	■		9	■	5
	(PY-83—Use red Grid cap)									
PY-88		2	12	23	4	■	3-8	9	■	5
	(PY-88—May show short on 1, 2, 3, 6, 7, 8, 9)									
	(PY-88—Use red grid cap)									
UAA-91	†diode-1	3	11	29	3	■		7	■	4
"	†diode-2	3	11	29	3	■		2	■	
UABC-80	triode	2	12	28	4	■		8-9	■	5
"	†diode-1	2	12	30	4	■		6	■	
"	†diode-2	2	12	16	4	■		2	■	
"	†diode-3	2	12	16	4	■		1	■	
*UBC-41	triode	2	10	27	1	■		2-3	■	8
"	†diode-1	3	10	39	1	■		6	■	
"	†diode-2	3	10	39	1	■		5	■	
UBC-81	triode	1	10	9	4	■		1-2	■	5
"	†diode-1	3	10	37	4	■		8	■	
"	†diode-2	3	10	37	4	■		6	■	
	(UBC-81—May show short on 7-9)									
UBF-15	pent.	2	12	23	2	■		1-6-7	■	3
"	†diode-1	3	12	31	2	■		5	■	
"	†diode-2	3	12	31	2	■		4	■	
UBF-80	pent.	2	11	25	4	■		1-2-6-9	■	5
"	†diode-1	3	11	35	4	■		8	■	
"	†diode-2	3	11	35	4	■		7	■	
UBF-89	pent.	2	11	23	4	■		1-2-6-9	■	5
"	†diode-1	3	11	31	4	■		7	■	
"	†diode-2	3	11	31	4	■		8	■	
UC-92		2	9	22	3	■		1-6	■	4
UCC-85	triode-1	2	12	26	4	■		6-7	■	5
"	triode-2	2	12	26	4	■		1-2	■	
UCH-42	triode	2	10	27	1	■		3-4	■	8
"	hexode	2	10	24	1	■		2-4-5-6	■	
UCH-81	hept.	2	11	26	4	■		1-2-6	■	5
"	triode	2	11	27	4	■		8-9	■	
UCL-81	triode	2	13	27	4	■		1-7	■	5
"	pent.	2	13	23	4	■		2-6-9	■	
	(UCL-81—Must show short on 3-8)									
	(UCL-81—Cathode Short Test—Throw 3-8 together)									

Tube	Sect.	A	B	C	D	E	F	Fil. Cont.
UF-11		2	10	25	2		5-6-7	3
UF-15		2	12	24	2		4-5-6-7	3
UF-41		2	10	25	1		2-5-6	8
	(UF-41—May show short on 3-7)							
	(UF-41—Cathode Short Test—Throw 3-7 together)							
UF-80		2	11	22	4		2-8-9-7	5
	(UF-80—Must show short on 1-3)							
	(UF-80—Cathode Short Test—Throw 1-3 together)							
UF-85		1	11	4	4		2-7-8-9	5
UF-89		2	10	27	4		2-7-8	5
	(UF-89—Must show short on 1-6)							
UL-41		2	14	23	1		2-5-6	8
	(UL-41—Must show short on 3-7)							
	(UL-41—Cathode Short Test—Throw 3-7 together)							
	(UL-41—Fil. Cont.—Set control "B" at 12)							
UL-84		2	13	26	4	1-6-8	2-7-9	5
	(UL-84—May show short on 1-2-6-8-9)							
	(UL-84—Grid short test—throw 1-2 together)							
	(UL-84—Screen Short Test—Throw 6-8-9 together)							
UM-11	triode	2	10	26	2		5-7	3
"	eye	4	10	0	2		5-6-1	
	(UM-11—See Instructions for Eye Test)							
UM-35	triode	2	10	25	1		5-6	8
"	eye	5	10	0	1		3-6-4	
	(UM-35—See instructions for Eye test)							
UM-80	triode	1	11	10	4		1-7	5
"	eye	4	11	0	4	3-6	7-9	
	(UM-80—Must show short on 3-6-9)							
	(UM-80—See instructions for Eye test)							
*UY-41		1	13	6	2		2	8
	(UY-41—Fil. Cont.—Set control "B" at 12)							
UY-11		2	14	23	2		5	3
	(UY-11—Fil. Cont.—Set control "B" at 12)							
UY-85		2	13	23	4	1-6	9	5
	(UY-85—May show short on 1-6-9)							
	(UY-85—Plate Short Test—Throw 1-6-9 together)							
XC-97		2	4	22	3		2-5	4
	(XC-97—Must show short on 1-7)							
	(XC-97—Cathode Short Test—Throw 1-7 together)							
XF-183		2	5	21	4		2-7-8-9	5
	(XF-183—Must show short on 1-3)							
	(XF-183—Cathode Short Test—Throw 1-3 together)							

Tube	Sect.	A	B	C	D		E	F		Fil. Cont.
XF-184		2	5	21	4	■		2-7-8-9	■	5
	(XF-184—Must show short on 1-3)									
	(XF-184—Cathode Short Test—Throw 1-3 together)									
XY-88		2	11	23	4	■	3-8	9	■	5
	(XY-88—May show short on 1, 2, 3, 6, 7, 8, 9)									
	(XY-88—Use red grid cap)									
YC-97		2	5	22	3	■		2-5	■	4
	(YC-97—Must show short on 1-7)									
	(YC-97—Cathode Short Test—Throw 1-7 together)									
YF-183		2	5z	21	4	■		2-7-8-9	■	5
	(YF-183—Must show short on 1-3)									
	(YF-183—Cathode Short Test—Throw 1-3 together)									
	(YF-183—Set switch "B" to No. 6 if there is no 5z position)									
YF-184		2	5z	21	4	■		2-7-8-9	■	5
	(YF-184—Must show short on 1-3)									
	(YF-184—Cathode Short Test—Throw 1-3 together)									
	(YF-184—Set switch "B" to No. 6 if there is no 5z position)									

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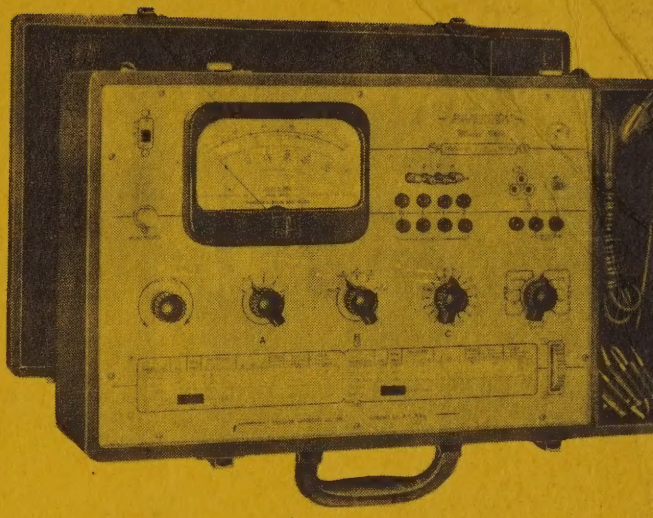
OF EVERYTHING YOU WANT IN A

TRANSISTOR AND CRYSTAL DIODE TESTER



MODEL 960 FEATURES

TESTS

1. **LOW-POWER TRANSISTORS**
2. **MEDIUM-POWER TRANSISTORS**
3. **POWER TRANSISTORS**
4. **CRYSTAL DIODES**

DIRECT Icbo READINGS in terms of true collector current

FIVE Icbo RANGES cover all types of transistors — low, medium and high power; n-p-n and p-n-p types

WIDE RANGE OF COLLECTOR POTENTIALS 0.5 volts DC to 100 volts DC in 17 steps

DIRECT-READING BETA RANGES. Circuit provides for five separate injection currents for low, medium and high power types

LEAKAGE TEST provides basis for accurate beta checks

CRYSTAL DIODE TESTS. 17 selected DC voltages for reverse current tests; also provides for separate forward tests

WIDE-ANGLE 5½" 100 MICROAMP-SENSITIVITY PACE METER

TRANSISTOR TEST SETTINGS listed on roller chart

PATCHCORD ELEMENT SELECTOR SYSTEM AND UNIVERSAL SEMI-CONDUCTOR ADAPTER provide for accommodation of future semi-conductor releases

HIGH-SPEED GEARED ROLL CHART with time saving *PRECISION* "Tube Finder" feature

TRANSISTOR AND CRYSTAL DIODE TEST DATA SUBSCRIPTION SERVICE SUPPLIED FREE to all registered owners for first year of ownership; thereafter at a nominal subscription cost (see Page 7).

PORTABLE WELL-CONSTRUCTED INSTRUMENT CARRYING CASE has accessory compartment and hinged, removable cover

ETCHED SATIN BRUSHED-ALUMINUM 3-COLOR PANEL

DIMENSIONS 18" x 10½" x 6¼"

SHIPPING WEIGHT 15 lbs

FOR ONLY

$109.95

MODEL 960

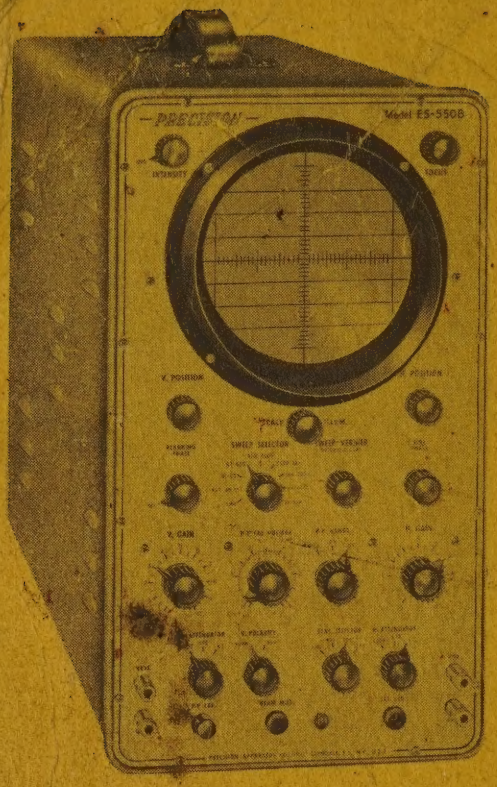
TRANSISTOR AND CRYSTAL DIODE TESTER

A comprehensive semiconductor test set designed for practical, reliable testing of transistors and crystal diodes. Specialized circuitry and operating parameters have been engineered in cooperation with leading semiconductor manufacturers. Self-contained AC power supply completely eliminates necessity for batteries.

MODEL 960, complete with Transistor Test Cable and detailed technical manual.

NET PRICE $109.95

EVERYTHING YOU WANT IN AN OSCILLOSCOPE



MODEL ES-550B

5-MEGACYCLE HIGH-SENSITIVITY 5" OSCILLOSCOPE

The complete answer to laboratory, industrial and electronic technicians' requirements for a rugged, dependable instrument for broadest coverage of oscilloscope applications including color TV. Provides an unparalleled standard of extra-high sensitivity with full 5-megacycle wide-frequency response, plus many other special performance features — at an unusually low price.

MODEL ES-550B, complete with comprehensive technical manual.

NET PRICE $274.95

MODEL ES-550B FEATURES

RESPONSE, 10 CYCLES TO 5 MEGACYCLES

PUSH-PULL WIDE-BAND VERTICAL AMPLIFIER
10 MV (.01 volts) per inch sensitivity
Cathode-follower Input: 2 megohms and 22 mmf
Response 1 Db from 10 cps to 3.5 Mc; 3 Db at 5 Mc

3-POSITION VERTICAL STEP ATTENUATOR
frequency-compensated; X100, X10, X1

DIRECT-READING PEAK-TO-PEAK VOLTAGE CALIBRATOR permits use of oscilloscope as dependable high-impedance Vacuum Tube Voltmeter

VERTICAL PATTERN REVERSING SWITCH

PUSH-PULL WIDE-RANGE HORIZONTAL AMPLIFIER
100 MV (0.1 volts) per inch sensitivity
Cathode-follower Input: 2 megohms and 22 mmf
Response 1 Db from 10 cps to 1.0 Mc; 3 Db at 2 Mc

3-POSITION HORIZONTAL STEP ATTENUATOR
frequency compensated; X100, X10, X1

LINEAR MULTI-VIBRATOR SWEEP CIRCUIT
10 cycles to 100 Kc; automatically synchronized 30 cycles and 7875 cycles sweep for TV sync-pulse analysis; amplified sweep retrace blanking

AMPLIFIED AUTO-SYNC CIRCUIT
active on all internal sweep ranges

FOUR-WAY SYNC SELECTION
Internal negative, Internal Positive, External & Line

3000-VOLT INTENSIFIER ANODE POTENTIAL
assures utmost visibility of oscilloscope traces for pulsed waveforms and high frequencies

"Z" AXIS INPUT TERMINAL
for blanking, timing and marking

BUILT-IN 60 CPS PHASING AND BLANKING CONTROLS

ALL 4 DEFLECTION PLATES READILY AVAILABLE
with full beam centering

HIGH-CONTRAST FILTER-TYPE ILLUMINATED GRATICULE

CAMERA MOUNT BEZEL

TUBE COMPLEMENT:
12AV7 vertical cathode follower and amplifier
6U8 vertical amplifier and phase splitter
Two 6CL6 push-pull vertical drivers
6U8 horizontal cathode-follower and amplifier
6C4 horizontal phase splitter
12BH7 push-pull horizontal driver
12AV7 wide-range linear sweep multi-vibrator
6BH6 auto-sync amplifier
12AU7 sweep retrace blanking amplifier
OA2 voltage regulator
5V4 low voltage rectifier
Two 1V2 high voltage rectifiers
5CP1/A cathode ray tube

CUSTOM-STYLED CABINET
of blue-grey, ripple-finish, heavy-gauge steel

2-COLOR SATIN BRUSHED-ALUMINUM PANEL

DIMENSIONS 8¼" x 14½" x 18½"

SHIPPING WEIGHT 47 lbs